TO BOTANISTS.

I take pleasure in sending these lists of interesting plants to the Botanists of the U.S. and of Europe.

The same care has been taken to keep the present collection up to the standard of that of 1878, in point of quality; and in quantity much more material has been added to make the sets fully equal to those of our best collectors. To those who have secured my large Colorado collection of 1878 these plants will prove valuable additions. The 150 additional species of this year will bring the whole Colorado list up to 1100 species. To these I now add over 500 species of Utah plants. Both lists (of 1879) contain nearly 15 NEW SPECIES and about 150 not reported from those sections before.

I have left but two full sets of the Colorado collection of 1878, containing 800 species. The Utah plants are put up in sets of 400 species, and the additional Colorado plants in sets of about 100 species.

All plants starren are not in the sets, from lack of enough material, there being from 1 to 10 specimens each. Of these as well as the rest botanists can make selections, and their wants will be supplied as far as possible.

All specimens are first-class, except those otherwise noted in the list. It is probable that most of the doubtful plants will prove to be new species. Prof. Watson has not yet reported on the plants sent him, and therefore some are still in doubt. But notice will be given if corrections are made. I have followed the latest and best authorities in the arrangement of species in their natural order.

The additional Colorado species were seemed during May, June, and a part of July. The Utah plants between July 18th and Sept. 1st. I am very greatly indebted for the unusually large and interesting list of Utah and Colorado plants to the courtesy and generosity of the Supt. of the Union Pacific R. R., to Mr. A. A. Bali Genl. Theket Agt. of the Colorado Central R. R., to John Ristey of the D. & R. G. R. G. R. B. to Mr. Sharp Supt. of the Utah Central and Utah Southern R. R., and to J. G. Kennedy and G. M. Young of the Wahsatch and Bingham Canon R. R. Had it not been for the interest which the managers of these railroads take in the exploration and development of the far Wost, its natural resources would still be, to the world at large, unknown and valueless. And I am glad to bear testimony to the liberality which they are ever ready to extend to scientists seeking to make known the resources of the West.

It is my intention to give another full season to the claboration of the plants of the little known section of southern Utah; and I expect to add 1000 species to the present Utah list. Hoping that these lists will interest you,

I am respectfully yours,

MARCUS E. JONES, A. M.,

Grinnell, Poweshiek Co., Iowa.

FLORA OF UTAH. First Fascicle.

COLLECTED BY MARCUS E. JONES, A. M.

6 1851	Clematis Douglasii, Hooker. (Fruit.)	1431#	Capsella Bursa-Pastoris, Mench.	→1347	Trifolium involucratum,
-1350	Anemone multifida, DC.	·1215	Thlaspi alpestre, L.	1046	panciflorum, Nutt.
	(Fruit.)	1430⊕			Molilotus alba, Lam.
•1194	Thatictrum Fendleri, Eng.		[Gray.		Medicago sativa. L.
-1025	Ranunculus Cymbalaria, Ph.	•1270	montanum, Nutt., var. al-		denticulata, Willd.
*1104	ndonous, Gray.		pinum, Watson.	1035	Inpulina, L.
*1130	athris, R. Br., var. leiocar-	·1316	Cleomo integrifolia, T. & G.		Astragalus Canadensis, L.
	pas, Tranty.	13640	Viola palustris, L.	1443	Utahensis, T. & G.
•1298	macranthus, Scheele.	1359#	Saponaria Vaccaria, L.	-1210	(Undescribed. New?) as he
•1348	Aquitegia flavescens, Watson.	1360*	Sitene acaulis, L.	•1127	Kentrophyta, Gray.
— 1349 [®]	formosa, Fisch. = Carrela	I 434#	Menziesii, Hooker.	1444*	Vicia micrantha, Nutt.
•1212	cærnica, James.	•1120	Douglasii, Hooker,	1445章	Lathyrus polymorphus, Nutt.
-1154	Delphinium elatum, L. var. (?)	1 372	Drawwordi Watson	1447年	Prunus demissa, Walpers.
~ >	occidentale, Watson.	1 (. 1	Triumoniti, Hatson. Doggodo	interes.	(11111111111111111111111111111111111111
3175	Aconitum Fischeri, Reich.	1279章	Stellaria umbellata, Turez.		Virginiana, L.
1429#	Actua spicata, I., var. argu-	1096*	humifusa, Rottbæll.	•1142	Spiræa discolor, Pursh, var.
.3001	ta, Torrey, (Fruit.)	-1203	Jamesii, Torrey		dumosa, Watson.
*100Ŧ	Berberis repens, Lindley.	*1160		•1301	eæspitosa, Nutt.
-1197	(Fruit.)	13030	Archaria verna, L.		Neillin Torreyi, Watson.
	Corydalis Caseana, Gray. Draba Caroliniana, Walt., var.	1433*			Rubus strigosus, Mx. (Fruit.)
01001	micrantha, Gray.	- 12698	Torr. & Gr.		Purshia tridentata, DC. (Fr.)
-1211	aurea, Vahl.	1002**	Sagina Linnæi, Presl.?	1491*	Cercocarpus ledifolius, Nutt.
- 1356*	Donglasii, Gray Whine		Spergularia media, Prest. Portulaca oleracea, L.	1.459%	(Frait.) Geum strictum, Ait.
•1235	alpina, L., var. algida,		Malya rotundifolia, L.	• 1264	Rossii, Seringe.
	Regel.		Sidaleca malvæflora, Gray.		Fragaria Virginiana, Ehrh.
·1251	Cardamine cordifolia, Gray.		Malvastrum coccineum, Gray.	1010	var. glauca. Watson.
	(Fruit.)	*1085	Sphæraleen acerifolia, Nutt.	•1108	Potentilla glandulosa, Lindl.
•1177	Arabis Drummondii, Gray.	≈1007	Sida hederacea, Torrey.	1454*	rivalis, Nutt., var. mille-
·1248	Lyallii, Watson.	•1121	Linum perenne, L.		grana, Watson.
1358#	Caulanthus hastatus, Watson.	•1112	Kingii, Watson.	1371♥	Pennsylvanica, L.,var. stri-
1355學	Erysimum asperum, DC.	 1173 	Geranium Richardsonii,		gosa, Pursh.
13530	Brassica alba, Gray.		[Fisch. & Mey.	0 1227	gracilis, Dougl.?
1037	nigra, Benth. & Hook.	*1026	Erodium cicutarium, L'Her.	1453章	Anserina, L.
~ 1432**	Barbarea vulgaris, Br., var.	*1083	Pachystima Myrsinites, Raf.	• 202	fruticosa, L.
. 1109	stricta, Gray.	(§*	Ceanothus velutiums, Torrey.		Sibbaldin procumbens, L.
*1192	Sisymbrium incisum, Eng.,		Acer grandidentalum, Nult.		Ivesia Gordoni, T. & G.
-:1117	var. filipes, Gray.	01436		 1231	New? Near to unguien-
	var. Hartwegianum, Wat.	1438*	Negundo aceroides, Moeneh.	14550	lata, Gray. J. Wrohmon
•1200	Smelowskia catycina, C. A. Meyer.	~ 1197	(Fruit.) Lupinus parviflorus, Nutt.=4	1400%	Rosa blanda, Ait. (?)
-1198	Nasturtium obtusum, Nutt.	-1430	laxillorus, Dougl. = arg wer licenter	1909**	Sehl.
- 1352	palustre, DC. = 50 mann	- 1439ni	argenteus, Pursh.	*1076	Cratagus rivularis, Nutt.
-1047	officinale, R. Br.	14419	Trifolium repens, L.	1010	(Fruit.)
	Vesicaria montana, Gray.	1442*	pratense, L.	-1373*	Saxifraga caspitosa, L.
					Contraction (1)

^{*}Plants marked with a star are not in the sets.

rnfeseens, Schrad.

pauciflorus, Pursh.

minimum, Banks.

1501* Streptopus amplexifolius, DC.

[parviflora, Led. 14133 spicata, Desv.

1023 Juneus Baltieus, Doth., var.

longistylis, Torrey.

tenuis, Willd.

bufouius, L.

- 1094 + A Mertensianus, Bong.

= 1504# Seirpus pungens, L.

fœtida, All.

Hoodii, Boott.

long.)

1044 Eleocharis palustris, R. Br.

acicularis, R. Br.

1016* unritimus, L. 1506* Carex filifolia, Nutt. (= +\runnymass)

der form.)

Deweyana, Schw.

festiva, Dewey.

Liddoni, Boott.

aquatilis, Wahl.

Jamesii, Torrey.

var.

var.

alpina, L.

Rossii, Boott.

1419* Phleum pratense, L.

alpinum, L.

utriculata, Boott.

1055 Sporobolus airoides, Trin.

ica, Boott.

montanus, Eng.

var. latifolius, Eng.

xiphioides, E. Meyer, var.

var. montanus, Eng.

Hoodii, Boott. (Very slen-

Hoodii, Boott? (Akeno ob-

vitilis, Fries, f. brunnoa.

" f. pallida. lagopina, Wahl.? ("or a new

species," Boott.)

straminea, Schk., var. typ-

Kelloggii, W. Boott. (ms)

aurea, Nutt.

var. nigra, Boott.

luzulæfolia, W. Boott n. sp.

(Sec Flora Cal.)

Alopecurus aristulatus, Mx.

Raynoldsii, Dewey.

" ("a form," Boott.) to you

[n. sp.

[cephalus, Torrey.

nodosus, L., var. mega-

littoralis, Eng.

Drummondii, E. Mey.

1288 Luzula spadicea, DU., var.

1072 Sparganium curycarpum,

1499 Smilacina amplexicaulis,

1500# stellata, Desf.

1097

-1070

1592

- 1503 A

1069

1532*

-1282

1415%

1282a

1273

1095

1259

1285*

1287

1257

1243

-1247

1263

4417

1204

1280

1411#

1412* Veratrum albam, L.

humilis, Eng. (ms.)

1462* lavicaulis, T. & G. 1006 Sesuvium Portulacastrum, L. * Echinocystis lobata, T. & G. · 1028 Berula angustifolia, Koch. . 1075 Sium cicutæfolium, Emelin. → 1184 Glycosma occidentalo, Nutt. → 1170 Ligusticum apiifolium, - Livera Benth. & Hook. • 1284 Angelica pinnata, Watson. · 1233 Cymopterus (?) anisatus, Gr. -1054 Pencedanum sativum, Benth. & Hooker. graveolens, Watson. • 1153 1464* Heracleum lanatum, Mx. 1463 Daucus Carota, L. · 1086 Cornus stolonifera, Mx. · 1325 Sambueus glauea, Nutt. 1465* racemosa, L.

• 1276 Circæa Pacifica, Asch. & Mag.

1461* Mentzolia dispersa, Watson.

· 1134 Symphoricarpus oreophilus, · 1381 Lonicora involucrata, Banks. (Fruit.) Galium bifolium, Watson. **-**1281 -- 1466* Aparine, L. triflorum, Mx. trifidum, L. Valeriana sylvatica, Rich. edulis, Nutt.

Eupatorium purpureum, L. Brickellia grandiflora, Nutt. microphylla, Gray. Gutierrezia Enthamiæ, T.&G. Grindelia squarrosa, Dunal. 1271 Chrysopsis villosa, Nutt., var. 1383@

var. foliosa, Eaton. 1209 Aplopappus Parryi, Gray. 1342 suffruticosus, Gray. 1081 Var. 1133 Macronema, Gray. Bigelovia graveolens, Gray, 1058

var. glabrata, Gray. 1468* Douglasii, Gray. 1469 var. Solidago occidentalis, Nutt. Virga-aurea, L., var. niultiradiata, T. & G.

1017 var. 1261 var.

nemoralis, Ait., var. var. var.

1379 Solidago Canadensis, L. 1191 Aster canescens, Pursh. var. adscondens, Lindley. 1308 var. Parryi, Eaton.

1180 var. 1531 var. 1522 var. 1003 Aster falcatus, Lindley. 1378 Nuttallii, T. & G. Kingii, Eaton.

asperugineus, Eaton. 1385 elegans, T. & G. 1189 var. Engelmanni, Eaton. glaucus. T. & G. 1253% 1216 Brachyactis frondosa, Ledeb. 1332 Townsendia scapigera, Eaton.

Erigeron compositum, Pursh. 1255 1207 ursinum, Enton. 1234 eæspitosum. Nutt. 1205 ochroleucum, Nutt. stenophyllum, Eaton. 1082 1057 divergens, T. & G.

macranthum, Nutt. 1161 1291 var. glabollum, Nutt. 1136 var. (rays white.) 1158

1208

1390

1239

1320

var. (rays white.) var. Antennaria dioica, Gærtn. var. rosea, Eaton.

alpina, Gærtn. Anaphalis margaritacea, Bth. Gnaphalium Sprengelii, Hook. & Arn.

palustro, Nutt. 1001 Iva axillaris, Pursh. 1340 xanthiifolia, Gray. Ambrosia psilostachya, DC. Xanthium strumarium, L., var. echinatum, T. & G.

Rudbockia occidentalis, Nutt. 1391 Wyethia amplexicaulis, Nutt. 1178 Helianthella Parryi, Gray,

var. multicaulis, Gray. 1307 Helianthus annuus, L. (II. lenticularis, Dougl.) Nuttallii, T. & G. 1079 Heliomeris multiflorus, Nutt.

1063 Bidens connata, Muhl. 1470* Layia glandulosa, H. & A. 1472* Chanactis Douglasii, II. & A. var. (alpine.) 1232

1305 Helenium autumnale, L. 1386* Actinella grandiflora, T. & G. 1474* Dysodia chrysanthemoides, 1002 Achillea Millefolium, L.

1475* var. rosca, T. & G. 1473* Anthemis Cotula, L. 1266 Chrysanthemum Leucanthemmm, L.

Artemisia discolor, Dougl. Ludoviciana, Nutt. biennis. Willd. dracunculoides, Pursh. tridentata, Nutt.

trifida, Nutt. (Wyom'g Ty.) 1476* 1387# Senecio aureus, L. var. obovatus, T. & G. 1125 eremophilus, Rich. 1144 Fremontii, T. & G. 1254

1409 var. lugens, Rich., var. Parryi, 1157 [Eaton. var. foliosus, Gray. 1126

var. Hookeri, Eaton. 15271492 var. 1389 var. 1526var.

hydrophilus, Nutt. Andinus, Nutt.

1174 Senecio triangularis, Hooker. 1388 Arnica cordifolia, Hook., var. 1119 latifolia, Bong. 1528 var. foliosa, Nutt.

1128

1238 var. 1167 longifolia, Eaton. var.
New species? (discoid.) = uni un tillia.
Now? (discoid.) 1529 1155 Now? (discoid.) # Day France 1252 Cnicus edulis, Gray. Troximon glaucum, Nutt.

aurantiaeum, Hookor. 1092 Taraxacum Dens-Leonis, 1150 Hieracium Scouleri, Ilooker. albiflorum. Hooker. 1480 Lactuca sativa, L.

pulchella, DC. 1020 1324* Sonchus oleraceus, L. asper, Villars. 1296 Vaccinium caspitosum, Mx. (Fruit.)

1482* Arctostaphylos Uva-ursi, [Spreng. 1489* Ledum glandulosum, Nutt. (Mostly fruit.)

1394 Pyrola secunda, L. - 1481 * rotundifolia, L., var. incarnata, llooker. (Fruit.) -1395* chlorantha, Swartz.

1393* Primula Parryi, Gray. 1206 Androsace septentrionalis, L. 1018 Glaux maritima, L. 1272 Apocynum andros emifolium,

L., var. 1496* Asclepias speciosa, Torrey. ~1042 Erythræa Nuttallii, Watson. 1138 Gentiana Amarolla, L., var. acuta. Eng.

1244 Swortia perennis, L.
-1230 Phlox canescens, T. & G. Proposition 1159 Collomia linearis, Nutt. 1122 aggregata, Porter, var. at-

tenuata, Gray. -1106 Gilia Nuttallii, Gray. - 1408* Watsoni, Gray. 1102 Polemonium hnmile, Willd.,

var. pulchellum, Gray. foliosissimum, Gray. -1137 Phacolin circinata, Jacq. f.

(alpine.) - 1484# Holiotropium Curassavicum, 1293 Echinospormum floribundum, Lehm. (Fruit.)

-1483* Eritrichiam leiocarpum, [Watson. 1256 Mertensia Sibirica. Don. - 1331 Cuscuta decora, Chois. & Eng. 1485* Solanum triflorum, Nutt.

1486* rostrutum. Dunal. - 1012 Physalis lanecolata, Mx., var. lævigata, Gray.

1396* Collinsia parviflora, Dougl. 1222 Scrophularia Californica, fCham. 14063 Pentstemon glaber, Pursh, var. Utaliensis, Watson.

humilis, Nutt., var. brevifolius, Gray. glaucus, Graham, var. stenosepalus, Gray.

1080 Jaffrayanus, Gray & American 1169 Mimulus Lewisii, Pursh. - 1080 1059 luteus, L. -1398var. alpinus, Gray.

rubellus, Gray. 14029 moschatus, Dougl. - 1164 Veronica Anagallis, L. -1065Americana, Schwein.

1101 1404* alpina, L.

1051 Castilleia minor, Gray. 1171 Salix desertorum, Rich.? -1139 minia(a, Dougl. 1401* var. -1400 pallida, Kth., var. septen-1241 arctica, Pallas, var. pet-[ræa, And. 1024 Euphorbia glyptosperum, trionalis, Grav. 1135 montana, Eng. 1115 Orthocarpus Tolmiei, Hook. 1300 Juniperus communis, L., var. & Arn. 1403 Cordylanthus Iaxiflorus, Gr.

1399* Pedicularis Grænlandica, (Pistillate.) 1286 Habenaria hyperborea, R. Br. [Retz. racemosa, Dougl. 1043 Triglochin maritimum, L. 1487# Verbena hastata, L. 1071 Sagittaria variabilis, Eng. 1488 bracteosa, Mx. 1304 Potamogeton graminens, L., 1319 Mentha piperita, L. 1029 Canadensis, L. [near to var. major, Morong.

1066 Lycopus lucidus, Turez., var. Americanus, Gray. sinuatus, Ell. 1109 Audibertia incana, Benth. - 1152 Lophanthus articifolius.

[Benth. 1033 Nepeta Cataria, L. 1036 Marrubium vulgare, L. 1032 Leonurus Cardinca, L. 1397 Stachys palustris, L.

1030 Plantago major, L. 1185 eriocarpa, Torrey. -1337 Abronia turbinata, Torrey - 1143 Eriogonum heracleoides,

I411 umbellatum, Torrey. 1322 racemosum, Nutt. -1140 Kingii, T. & G., var. laxifolium, T. & G. = ob. -1199 +327--1327 Min structerule cornnum, Nutt. - Thomas L 1530

-1336 Oxyria digyna, Campd. 1229 1183* Rumex occidentalis, Watson. - 1593 maritimus, L. 1064 Polygonum aviculare, L. T090

var. latifolium, Watson. 1410% New? = minimum -1221 tenue, Mx., xar-__1100 tenue, Mx., Tante coaretatum, Dougl., var. [minus, Meisn. nodosum, Pers. nere, H. B. K. - Province hydroniperoides, Mx. - Hard of the coaretain and the coar 1105 -1068* -1067

— 1495[※] 1289 viviparum, L. Convolvulus, L. 1217 1494 Amarantus retroflexus, L. 1344 alba, L. -1299 A blitoides, Watson.

1328 Sarcobatus verimienlatus, [Torrey. -1329 Sucda depressa, Watson. -1060 fruticosa, Forsk., var. = hermit? Salicornia herbacca, L. 1507

1507 Salicornia herbacca, L.

1176 Chenopodium olidum, Wats. 2 herby 1259a

1490 urbicum, L. why 14163

1930 leptophyllum, Nutt. 2 herby 1534

hybridum, L.

1181 Blitum capitatum, L. 1181 Blitum capitatum, L. _1049 glaucum, Koch. 1182 Monolepis chenopodioides,

1312* Atriplex patula, L., var. littoralis, Gray. var. hastata, Gray. confortifolia, Watson, canescens, James. argentea, Nutt. 1011

-1491* Kochia prostrata, Schrad. [L. 1341 Corispermum hyssopifolium, -1493 Spirostnehys occidentalis,

1321 Humulus Lupulus, L. (Pr.) (Fruit.)

1498 Alnus incana, Willd. (Fruit.)

1022 Sporobolus asperifolius. (Vil-fa, N. & M.) 1179 Vilfa depauperata, Torrey, Var. filiformis. Thurber. 1163 Agrostis scabra, Willd. 1045 exarata, Trin. verticillata, Villars. 1014 1008 vulgaris, With. vilgaris, With. depauperate 1013 Polypogon Monspeliensis,

1219 Cinna arundinacea, L., var. pendula, Gray. 1420 Calamagrostis Canadensis, 1274 Mt. form. Beauv. 1145 strictn, Nutt. (not Trin.) 1418# Stipa viridula, Trin. var. (alpine form.) 1089 Spartina gracilis, Trin.

Dactylis glomerata, L. 1039 Melica powoides, Nutt. 1265 Glyceria nervata, Trin. airoides, Thurber. 1005 Brizopyrum spicatum, Hook. 1034 Poa annua, L.

1262 alpina. L. flexuosa, Wahl.? 1514 arctica, R. Br. (scabrous 1188 culus.) 1188a. arctica, R. Br.? 1532# Andina, Nutt., var.

var. var. (Called Atropis 1190 Californica.) tenuifolia, Nutt. 1124 var. rigida, Vasey. 1509 pratensis, L.

1531

1423 scrofina, Ehrh., var. 1515# Festuca ovina, L. var. brevifolia, Watson. 1132 Bromus Kalmii, Gray., var. occidentalis, (Vasey.)

breviaristatus, Thurber. secalinus, L. Phragmites communis, Trin. 1004 Triticum repens, L., var. var. var. (spikelets double.) repens, L.? (spikelets in 1004a

1516* [pairs.] var. compactum, Vascy. violaceum, Hornemann. 1517學 1421% caninum, L. 1077* ægilopoides, Turez. 1326*

1038 Hordenin jubatnm. L. 1050 Elymns Canadensis, L. 1186 Sitanion, Schultz. 1019 condensatus, Presl. Sibiriens, L. 1518 Sibirious, L.? 1519* triticoides, Nutt.

1156 Trisetum subspicatum, Bv. quite pubescent. 1200 Aira danthonioides, Trin. (depauperate.) erespitosa, L., var. arctica. 1093 Vasey.

var. montana, Vascy. 1073 Beckmanuia erucæformis, 1313 Panicum capillare, L. [Host. Setaria glanca, Beauv. 1510 1224 Ptoris aquilina, L., var. 1511* Pellaa densa, Hooker.

1118 Breweri, Eaton. 1290 Cryptogramme nerostich-[oides, R. Br. 1225 Asplenium Filix-fæmina, Bernh., v. angustum,

[Eaton. 1165 Aspidium Lonchitis, Swartz.

1277 Cystopteris fragilis, Bernh. 1294 Woodsia scopulina, Eaton.

1492 Koonia ammione 1493 A. Gale: herkinger

	-4	
115 E	Uromyees excavatus,	DC.

1131 Æcidium Epilobii, DC.

380

1246 Selaginella rupestris, Spring.

1594#	Isoetes.	1314	Trichobasis Leguminosaram.	1521	intermixtum, Peck v. sp.
1040@	Chara.		[Link,		(Wyoming Terr.)
	THINGT	1525	Ustilago urceolarum, Tul.	1524*	Giliae, Peck n. sp.
1.19.39	FUNGI. Puccinia aberrans, Peck n. sp.	1229	Syntherismæ, Schw. Uredo Filicum, Desm.	1425	Spherotheca Castagnei, Lev.
1521	intermixta, Peck n. sp.	1593章	Coleosporium miniatum, Bon.	1299	Erisypho lamprocarpa, Lev. Dothidea.
1041	(Wyoming Terr.)	115I	Æcidium Euphorbie, Pers.		-43
	COLORADO		DRA. ADD	ITION	18, 1879.
947	Anemone cylindrica, Gray.	990	Asolepias Hallii, Gray.	1585	Carex Liddoni, Boott.
935	Ranunculus aquatilis, L.,		Accrates aurienlatus, Eng.	1597	scoparia, Schk. [nor, Dew.
936	[var. stagnatilis, DC. Aquilegia chrysantha, Gray.	968	Gilia congesta, Hooker, var. erebrifolia, Gray.	1598 1586*	straminea, Schk., var. mi- Jamesii, Torr. Typ. form.
	Delphinium agnreum, Mx.,	9710	Eritrichium Californicum,	1587	" var. (not C. Nebras-
	Arabis perfoliata, Lam. [var.		DC., var. subglochidiatum.	1588	verticilista, Bit. [kensis.)
	Helianthemum - [var.?	970	leiocarpum, Wats [Gray.	1595	stricta, Lam.
939	Lychnis Drummondii, Wat.,	972	glomeratum, DC.	1589*	flava, L., var. Œderi, W. Btt.
940	Hypericum Scouleri, Hooker.	973	Pentstemen glaber, Pursh.	1546	Sporobolus asperifolius. (Vil-
941	Ampelopsis quinquefolia, Mx.	0-1	[yar. eyananthus, Gray.		fn, N. & M.)
0.49%	The western variety.	974	gracilis. Dougl.	1545	Muhlenbergia gracilis, Gray.
943	Ceanothus velutinus, Dougl.	975	Gratiola Virginiana, L.	807	New species? near to
	Lupinus argenteus, Pursh. Trifolium pratense, L.	848 976	Pedicularis procera, Gray, Hedeoma Drammondi, Gray,	65	[glomerata. Oryzopsis asperifolia, Mx.
945*		616	hispida, Pursh.	1547	Stipa penuata, L., var. Am-
	Medicago sativa. I	291	Stachys cordata, Riddell.	1011	ericana, Vascy.
	Petalostemon candidus, Mx.		Mirabilis oxybaphoides, Gray.	1548	Aristida purpurea, Nutt.,var.
	Psoralea hypogæa, Nutt.	978	Oxybaphus hirsutus. Sweet.		Fendleriana, Vasey.
614	Amorpha fruticosa, Nutt.	979	nyctagineus, Sweet. [Torr.	1549	Leptocloa fascicularis, Gray.
869	Astragalus flexuosus, Dougl.		Sarcobatas vermiculatus,		Melien bulbosa, Geyer.
948* 949		981	Sueda fruticosa, Forsk., var.		Glyceria airoides, Thurber.
950	Pattersoni, Gray. Glycyrrhiza lepidota, Nutt.	982** 871	Rumex salicifolius, Weinm. Polygonum erectum, Watson.	1551	Poa. New species? Bromus secalinus, L.
951	Vicia truncata, Nutt.	984*		1553	Triticum repens, L., var. com-
001	(=linearis?)	10.5	canum, Koch.	1000	pactum, Vasey.
912	micrantha, Nutt. [Hooker.	1538#	Bistorta, L., var. lineari-	1578	repens, L. Double spike-
914	Neillia opulifolia, Beuth. &		folium.Watson.	1579	violaceum, Hornem. [lets.
952#	Geum Rossii, Scringe, var.	985	amphibium, L., var. aquat-	1580	- Between repens and
0.5.9	[molle, T. & G.	0.00	ieum, Willd.		[eaninum.
953 303#	Potentilla arguta, Pursh. gracilis, Dongl.	986#	Penusylvanicum, L.	1581	Elymus Sibiriens, L.
954*	Pennsylvanica, L., var.	991 903条	Argythamnia humilis, Mull. Urtien urens, L.	1554 1555	Avena striata, Mx. Phalaris arundinacea, L.
	Crategus rivularis, Nutt.		Pinus edulis, Eng.	897	Equisetum pratense, Ehrh.
	Saxifraga Jamesii, Torrey.		Abies concolor, Lindley.	1556*	hyemalo, L.
956*	Enothera cæspitosa, Nutt.		Alisma Plantago, L., var.		
	(Caulescent form.)		[Americanum, Gray.	1500	FUNGI.
957	breviflora, T. & G.	997	Smilax herbacea, L., var. in-	1560	Puccinia Physalidis, Peck
	Cieuta maculata, L.	2000	odora.	1561	Uromyces excavatus, DC.
	Berula augustifolia, Koch. Liatris scariosa, Willd.?		Habenaria dilatata, Gray.	1562	hyalinus. Peck.
	(Probably distinct.)	บบอา	Yncea angustifolia, Pursh. (Fls. and fruit, no leaves.)	1577#	Lupini, B. & C. [Link.
959件	Kuhnia cupatorioides, L.	4000		1563	Trichobasis Leguminosarum,
	Aster multiflorus, Ait., var.	ทบทจ	Luzula parviflora, DC., yar. congesta, Eng. (ms.)	1564	gaurinum, Peck n. sp.
	commutatus, Gray.	1000*	Juneus nodosus, L.,var. (near	1565	Sorosporium Astragali,
	Erigeron canum, Gray.		to typical form.)	1 5 = 4 /8	[Peck n. sp.
962	annuum, Pers.	969	tenuis, Willd., var.	1574# 1566#	atrum, Peck n. sp.
	Parthenium incanum, H. B.	983	Cyperus filiculmis. Vahl.	1567	Coleosporium miniatum, Bon. Æcidium Euphorbiæ, Pers.
	Heliopsis hevis, Pers. [K.? Lepachys columnaris, T.&G.	812	Scirpus pungens, Vahl.	1568	hemisphæricum, Peck.
963*	var. Tagetes, Gray.	1540	atrovirens, Muhl.	1569	gaurina, Peck n. sp.
	Thelesperma gracile, Gray.		Elyna spicata, Schrad.	1570	Psoruleæ, Peek. [Lev.
	Hymenopappus tennifolius,	1544#	Carex Hallii, Olney.	1572	Microsphæria holosericea,
	[Pursh.		affinis, R. Br.	1573	Spherella megastoma,
295	Cnieus undulatus, Gray.	1596 1582#	bromoides, Schk. sicenta, Dewey.	1555	Peek n. sp.
965	var. ochrocentrus, Gr.	303	narcida, Boott.	1575 1576	Erysipho communis?
607	Lygodesmia juneca, Don.	263	Hoodii, Boott.	1576	Melampsora Hartigii, Thum.
967	Sonchus asper, Villars. Lysimachia eiliata, L.	105	disticha, Huds.		KANSAS PLANTS.
593	Asclepias speciosa, Torrey.	248*	muricata, L.		Viola pubescens, Ait., var.
987#	Jamesii, Torrey.	1583	var. graeilis, Boott.	1001	eriocarpa, Nutt. (Fruit.)
988#	inearnata, L.	1584	stellulata, L., var. scirpo-	1558	Æsculus arguta, Buckley.
989	tuberosa, L.		ides, Carey.	1559	Astragalus mollissimus, Torr.
		CONNT	OMICANO MO TIOM ON		

CORRECTIONS TO LIST OF 1878.

Aster multiflorus=var. commutatus, Gray, in part.—Ranunculus aq., var. stagn.=var. trichophyllus, Chaix.—Arabis hirsuta=perfoliata, L., in part.—Lyebnis Drum.=Silene antirrhina, L.—Seseli Hallii—Cymopterus (?) anisatus. Gray.—No. 140=Thaspium montanum, Gray.—Gentiana Am.=var. acuta, Eng.—Polemonium humile=var, pulchellum, Gray.—Onosmodium Carol.=molle, Mx.—Aristida purp., var. Fendl.=var. longiseta, Vusey, (in part.)—Stipa spartea=comata, Trin.—Aira danth.=cespitosa, L., var. arctica, Vascy.—No.606=P. rufescens, Schrad.—No. 734=P. pauciflorus, Pursh.—Potamogeton Vascyi=pectinatus, L.—Delphinium Menzicsit=bicolor, Nutt.—Abronia cycloptera=micrantha. Torrey.—Berberis Aquifolium=repens, Lindley.—Iris tonax?=Missourieusis, Nutt.—Rumex long.=occidentalis, Watson.—Zygadenns glaneus=elegans, Pursh. Changes in synonyms are omitted.

BOTANISTS. TO

In sending out this list of Utah plants, I am able to add a number of new species to those before reported. And I trust that this third list of species will be received with even more favor than its predecessors, for the number of new and desirable species is much larger than usual.

One-third of the collection was made at St. George, in southern Utah, from March 29th to April 14th. Quite a number of valuable plants were gathered on the way to Salt Lake City. An excursion was made in June to Frisco, where a large number of species were collected, and some new ones. During the Spring an almost complete collection was made of the plants peculi ir to the valleys and foothills of Utah. I am indebted to the same gentlemen whose kindness I had occasion to mention last year, for railroad facilities; and especially to James Sharp, of the Utah Southern R. R. for such repeated courtesies as enabled me to add a number of new species to my list, and very many others of interest.

The sets of 1879 contain about 400 species; those of 1883, about 450 species; Colorado sets, 900 species. The fungi, containing a number of new species, will occupy a separate list.

It is my intention to spend the coming season in collecting through Utah, Nevada, California, and Arizona. Persons who desire live specimens should inform me at once.

MARCUS E. JONES, A. M.,
Salt Lake City, Utah, U. S. A.

FLORA OF UTAH. Second Fascicle.

COLLECTED BY MARCUS E. JONES, A. M.

	1051	Olemetic Dencingii Hook			(1352 is N. obtusum.)	1867	Rhus glabra, L.
	1351	Clematis Douglasii, Hook.			N. obtusum. Nutt., var. alpin-	1932	Toxicodendron, L.
	1887	alpina, Mill., var. Ochoten-		1010	um, Watson.	1608	aromatica, Ait., var. trilo-
	1000	sis, Gray.		1254	Vesicaria montana, Gray.		bata, Gray.
	1882	verticillaris, DC. (Fruit.)		1869*	alpina, Nutt.	1934*	Thermopsis montana, Nutt.
	1607	Anemone decapetala, L.		1730	Camelina sativa, Crantz.		Lupinus brevicaulis, Watson.
		Myosarus aristatus, Benth.		1627	Capsella divaricata, Walp.	1946	parviflorus, Nutt.
	140T	Ranunculus aquatilis, L., var.		1431	Bursa-pastoris, Mænch.	1956*	laxillorus, Dougl.
	1715	trichophyllus, Gray.			Lepidium Wrightii, Gray.		(1187 is argenteus and 1439 is
	1715	digitatus, Hooker.		1821	Utuhense; n. sp. = integriffe		the var. decumbens, fide Wat.)
	1428	sceleratus, L.		1430	intermodium, Gray.	1935*	Trifolium subcaulescens, Gray.
	1701*	adoneus, Gray, var.		1896	montanum, Nutt.		Melilotus olheinalis, Willd.
	1349章	Aquilegia caru'ea, James.		1656	alyssoides, Gray,	1833	Psoralea lanceolata, Pursh.
	1210	("A form.")		1665	Fremontii, Watson.		Glycyrrhiza lepidota, Nutt.
district	1712	Delphinium Menziesii, DC.		1925	Physaria didymocarpa, Gray.	1813	Astragalus diphysus, Gray.
	1696	bicolor, Nutt.		1810	Newberryi, Gray.	1807	lentiginosus, Dougl.
	1429	Actæa spicata, I., var. arguta,			Thysanocarpus curvipes, Hk.	1939*	Mortoni, Nutt.
	1001	Torrey.		1735	Cleome integrifolia, T. & G.	1620	nothoxys, Gray.
	1084	Berboris repens, Lindley.		1100	(White flowers.)	1940#	atratus, Watson.
	100:	(Flowers.)		1796	Intea, Hook.	1941*	Pattersoni, Gray.
	1605	Argemone hispida, Gray. Eschscholtzia Californica,		1749	Viola cucullata, Ait.	1938*	humistratus, Gray.
				1718	canina, L., var. longipes,	1633	amphioxys, Gray?
	1716	Cham., var. cæspitosa, Brewer.		1410	Culting 21, van 1542, per	1679	iodanthus, Watson.
		minutiflora, Watson. Dicentra uniflora, Kellogg.		1677	Nuttallii, Pursh.	1725	Beckwithii, T. & G.
		Corydalis aurea, Willd., var.		1676	Beckwithii, T. & G., var.	1743	eriocarpus, Watson.
	1004	occidentalis, Eng.		1359	Saponaria Vagearia, L.	1945*	new sp.
	1734*			1839	Silene antirrhina, L.	1443	Utahensis, T. & G.
		Draba nemorosa, L.		1434	Menziesii, Hook,	1781	Geyeri, Gray.
	1799				Arenaria congesta, Nutt.	1797	pictus, var. filifolius, Gray.
	1632	Arabis longirostris, Watson.		2123	Fendleri, Gray.	1690	Chamwleucc, Gray.
-	1923*			1818	capillaris, Poir.	1831	junceus, Gray.
	2124	perfoliata, Lam.		1203*	verna, L., var. hirta, Water.	1943*	_
	1879	hirsuta, Scop.		1362	Sagina Linnai, Presl.	1944*	
	1755	Lyallii, Watson.		1638	Claytonia porfoliata, Donn.	1942*	procerus, Gray. (?)
	1100	(1248 is A. Drnm., var.)		1709	var,	1210年	campestris, Gray.
	1876	Holboollii, Hornem.		1706	Caroliniana, Mx., var. ses-	1898	Oxytropis campestris, L., var.
,	1650	arcuata, Gray.			silifolia, Torr.		viscida, Watson.
-	1924*			1827	Lewisia rediviva, Parsh.	1744	Hedysarum Mackenzii, Rich.
-	1811	Streptanthus cordatus, Nutt.		1928#	Hypericum Scouleri, Hook.	1444	Vicia Americana, Muhl., var.
	1358	Canlanthus hastatus, Watson.		1435	Malva rotundifolia, L.		truncata, Brewer.
		Thelypodium sagittatum,		1015	Malvastrum coccinenm, Gray.	1937	var. linearis, Watson.
	1011	[Endl.		1931	var.	1619	exigua, Gray.
->	1648	how species?		1628	exile, Gray.	1740	Lathyrus polyphyllus, Nutt.
	1809	Stanleya pinnatifida, Nutt.		1085\$	Sphæralcea accrifolia, Nutt.	1445	paluster, L.
- \	1903	Erysimum cheiranthoides, L.			(Very fine specimens.)	1936	polymorphus, Nutt.
1	1355*			1660	Emoryi, Torr.	1700	ornatus, Nutt.?
1	1353	Brassica alba, Gray.		1871	Geranium incisum, Nutt. (?)	1446	Prunus demissa, Walp.
1	1432	Barbarea vulgaris, R. Br., var.		1929*		1630	fascienlata, Gray.
		stricta, Gray.	5	1930*	Erodium Texanum, Gray?	1448	Neillia Torreyi, Watson.
	1612	Sisymbrium canescens, Nutt.		1603	Ceanothus velutinus, Dongl.	1380	Rubus Nutkanus, Mocino.
		Nasturtium palustre, DC., var.		1437	Acer grandidentatum, Nutt.	1449	strigosus, Mx.
		hispidum, Fisch. & Mey.		1438	Negundo aceroides, Mænch.	1850	leucodermis, Dougl.

Psoraleæ. Pcck n. sp.

Zvgadeni, Peck n. sp.

ar culatus, Lev.

Californica, Gray. Chrysopsis villosa, Nutt., var. toliosa, Eston. Aplopappus linearifolius, DC. 1804 armerioides, Gray. mues reprairing, oray, var. brachyanthum, Gray. divarieatum, Dongl., var. ir-1754 var. 1975# Bigelovia Douglasii, Gray, var. riguum, Grav. lacustre, Poir, var. parvupuberula, Gray. 1469 Folidago pumila, T. & G. lum, Grav. prostratum, L'Her. 1082# Aster arenarioides, Eaton. Hadsonianum, Richardson. 1980零 1739 var. cereum, Dougl. 1981年 1456 erie:efolius, Rothrock. viscosissimum, Pursh. 1769 1806 anreum, Pursh. 1886 var. Engelmanni, Eaton. 1952* Sedum Mechani, Gray? 1189# 1951* Lythrum a'atum, Pursh. (1253 is a form.) Townsendia Arizonies, Gray. 1862 Hippurus vulgaris, L. 1953 Gayophytum ramosissimum, Erigeron argentatus, Gray. 1148* diffusum, T, & G, [T. & G. compositus, Parsh, var. dis-1459 Enothera albicanlis, Nutt. coideus, Gray. ? 1960# Californica. Watson. 1205@ Eatoni, Gray. tener, Gray. cæspitosus, Nntt. 1746 easpitosa, Nutt. 1828 1961章 Johnsoni, Watson? 1962* pumilus, Nutt. heterantha, Nutt. 1731 strigulosa, T. & G., var. puconcinnus, T. & G.,var. con-1959幸 densatus, Eaton. bens, Watson. same, but rayless. var. aphanactis, Gray. alyssoides, Hook. & Arn. var. minutiflora, Watson. 1958# Coulteri, T. C. Porter. Boothii, Dougl. ganræflora, T. & G. 1955衆 armeriæfolius, Turez. Canadensis, L. 1963年 Antennaria dimorpha, T. & G.
Iva axillaris, Pursh, var. puscapoidea, Natt. 1778 1668 var. purpurascens, Wats'n. 1954* 1760* brevipes, Gray. 1825* pterosperna, Watson. 1838 Clarkia rhomboidea, Dougl. beseens, Gray. Franseria Hookeriana, Nutt. 1984* Balsamorhiza macrophylla, 1460 Gaura parviflora, Dongl. 1629 Mentzelia albicaulis, Dougl Hookeri, Nutt. sagittata, Nutt. 1461 dispersa, Watson. 1602* Echinocystis lobata, T. & G. Wyethin amplexicaulis, Nutt. 1978* Helianthella n. sp.? = 1334 Helianthus Nuttlliia, T. & G. 1965* Echinocactus Whipplei, Eng. 1967# Cereus 1986* Vignera -n. sp.? = 1470 Mudia sativa, Molina, var. 1968* Opuntia rutila, Nutt. Missouriensis, DC. racemosa, Gray 1966* echinocarpa, Eng. & Big. 1987* glomerata, Hook. 1982* Hemizonella -n. sp. ? 2 1686 Orogenia linearifolia, Watson 1916 Carum Gairdneri, Bth. & IIk. 1985* Hemizonia ---1721 Layia glandulosa, 11. & A. 1909 Cienta maculata, L. 1852 Osmorrhiza nuda, Torr. 1631 Actinolepis Wallacei, Gray. 1170 Ligustieum filicinum, Watson. 1988 lanosa, Gray.

-2-1783 Chanactis stevioides, II. & A. Cymopterus terebinthinus. [T. & H. 1990% var.? (pappus acute.) wacrantha, Eaton. montanus, Nutt. Douglasii, II. & A. glaucus, Nutt. glomeratus, Raf.? var. (glandular.) 1989 Syntrichopappus Fremontii, purpureus, Nutt. eucedannes = 7 mlen 1993 Matricaria discoidea, DC. Peucedanum simplex, Watson. Tanacetum diversifolium, Eat. villosum, Nutt. Tetradymia comosa, Gray. bicolor, Watson. spinosa, Hook. & Arn. canescens, DC., var. inmillefolium, Watson. Newberryi, Watson. 1994* Senecio vulgaris, L. Nevadense, Watson. Forula multifida, Gray, Kelloggia pelingsplotes, Fore Galium Aparine, L. aureus, L., var. multiloba-tus, Gray. Fendleri, Gray. lugens, Rich., var. asprellum, Mx. 1736 1598 hydrophilus, Nutt. 1155* Arnica Parryi, Gray. asperrimum, Gray. boreale, L. (Fruit hairy.) Bloomeri, Gray. 1905 Cnieus Drummondii, Gray. multiflorum, Kellogg.

Utabenso n. sp.

Plectritis eougesta, Du. (Caulescent.) 1995* undulatus, Gray. 1745 Centaurea Melitensis, L. Brickellia linifolia, Eaton. 1999 ** Cichorium Intybus, L. Tragopogon porrifolius, L. 1732Microseris nutans, Gray. 1707 major, Gray. var. 20020 linearifolia, Gray. 1798 Stephanomeria exigua, Nutt. var. 2005# Rafinesquia Neo-Mexicana, 1779 Glyptopleura marginata, Eat. 11779 Glyptopicura marginata, Eat. 1997* setulosa, Gray. 2004* Malacothryx Coulteri, Gray. 2000* Californica, DC., var. glab-rata, Eaton. 2003# new species: z sonchioides, T. & G. 1789 Crepis occidentalis, Nutt. 1851 var. crinita, Gray. acuminata, Nutt. 1759 glanca, T. & G. runcinata, T. & G. non operios?: Souchus ann Troximon glaucum, Nutt., var. taraxicifolium, Gray. glancum, Nutt., var. laciniatum, Gray. var. aurantineum, Hook. grandiflorum, Gray, var. tenuifolium, Gray. var. Chilense, Gray. 1872 Lygodesmin grandiflora, T. &C. spinosa, Nutt. 1801 exigua, Gray. 2008# Lactuca Ludoviciana, Nutt. 1913 Canadensis, L. 2007 Ieucophaa, Gray. 1324 Sonehus o'eraccus, L. 2014* Specularia perfoliata, A.DC. 2018 Vaccinium emspitosum, Mx., var. cuneifolium, Nutt. Pyrola rotundifolia, L., var. incirnata, Hook.

ermis, Gray.

Dodecatheon Media, L., var.

1393 Primula Parryi, Gray.

2025 Fraxinus anomala, Torr.

1863 Aposynum cannabiaum, L.

2016 Lysimachia ciliata, L.

viridis, Mx.

2019* Aselepiodora decumbens, Gr. 2017 Asclepias incarnata, L., var. Îongifolia, Gray. speciosa, Torr. 2020* Gentiana simplex, Gray. (Soda Lake, Southeastern Idaho.) 1244 Swertia perennis, L., var. obtusa, Grisob. Frasera speciosa, Dougl. Phlox eanescens, T. & G. 2021 e espitosa, Nutt. 1230% Douglasii, Hook. longifolia, Nutt., var. Stans-1708 buryi, Gray. var. brevifolia, Grav. 1873 Collomia tenella, Gray. grandiflora, Dougl. 1840 gracilis, Dougl. 1684 1656 Gilia demissa, Gray. liniflora, Benth., var. phar-1902 nacenides, Gray. 2027 Bigelovii, Gray. 1408 Watsoni, Gray. 1784 pungens, Benth., var. squarrosa, Gray. 1788 floccosa, Gray. congesta, Hook. 1816 polyeladon, Torr. 1662 depressa, Jones, n. sp. = 1772 tenerrima, Gray. mor. - incombic inconspieua, Dougl. 2024 1617 var. sinuata, Gray. leptomeria, Gray. 2023 1651 var. 1742# var. filiformis, Parry. 2026章 2028* n-op. 2 Polemonium cærnlenm, L. 1884 micranthum, Benth. 1666 Hydrophyllum capitatum, occidentale, Gray, var. Watsoni, Gray. Nemophila breviflora, Gray. 1407 Phacelia circinata, Jacq. f. 2030多 erenulata, Torr. Menziesii, Torr. cephalotes, Gray. rotundifolia, Torr. mierantha, Torr. 1626 Ivesiana, Torr. Fremontii, Torr. Nama demissum, Gray. Coldenia Nuttallii, Hook. Peetocarya linearis, DC. (Chilensis, DC.) 1667 Echinospermum Redowskii, Lehm., var. oecidentale, Watson. 2031* var. cupulatum. Gray. 2032* Eritrichium Californicum, DC. 1652 eireumeissum, Gray. 1661 mieranthum, Torr. 1621 barbigerum, Gray. 1611 77. Sp. 2 leiocarpum, Watson. 1483 2033*muriculatum, A. DC., var. ambiguum, Gray. pterocaryum, Torr. 1692 glomeratum, DC., var. humile, Gray. fulvocanescens, Gray. 1640 Amsinekia tessellata, Gray. 2038 Mertensia oblongifolia, Don. panieulata, Don.

1669 Lithospermum pilosum, Nutt. 2040 Convolvulus sepium, L. 1793 2036* Cressa Cretica, L., var. Trux-2063 illensis, Choisy. 1918 Cuseuta tenuiflora, Eng. 2072* Californica, Choisy, var. 1336# brevifiora, Eng. 2070 1875 var. (near to var. gracili-2073* flora, Eng.) 1782 9039# salina, Eug. 1914 eurta, Eng. (ms.) 1485 Solanum triftorum, Nutt. 2041* nigrum, L. 2042* Physalis pubescens, L. 2066 1624 Lycium Andersonii, Gray. 2043* Datura Tatula, L. 2057* Nicotiana Palmeri, Gray. attenuata, Torr. 1855 2047* Verbaseum Thapsus, L. 2049* Antirrhinum Kingii, Watson. 2048# filipes, Gray. 1396 Collinsia parviflora, Dougl. 1829 Pentstemon Eatoni, Gray. 1406 glaber, Pursh, var. cyananthus, Gray. Parryi, Gray. Wrightii, Hook. (?) 1819 1812 1820 Palmeri, Gray. 2045\$ humilis, Nntt. var. brevifolius, Gray. 14052046*ambiguus, Torr., var. Thurberi, Gray. 2044 Kingli, Watson. 1800 azurcus, Benth., var. ambiguus, Gray. var. 1655 Mimulus Parryi, Gray. 2050# luteus, L. var. depauperatus, Gray. floribundus, Dougl. 1851 2051 Synthyris pinnatifida, Watsou. 1892 Castilloia linariæfolia, Beuth. 2051 parviflora, Bong. 1631 Cordylanthus canescens, Gray. 1403 2052 Pedicularis centranthera, Gr. 2058 Aphyllon uniflorum, Gray. fasciculatum, Gray, 2053multiflorum, Gray. 1711 Verbena hastata, L. 1109# Monardella odoratissima, Bth. 1904 Dracocephalum parviflorum, 1644 2055* Scutellaria antirrhinoides, Bth. 1710 2054* galericulata, L. 2056 Brunella vulgaris, 1... 17031397 Stachys palustris, L. 2060# Plantago lanceolata, L. 1832 Plantago Patagonica, Jacq. var. aristata, Gray. 2059* 1625 var. 1865 Oxybaphus angustifolius, 1337* Abronia fragrans, Nutt. Eriogonum exspitosum, Nutt., var. (E. Andinum.) 1140 ehrysocephalum, Gray. ovalitolium, Nutt. 1785villiflorum, Gray. microthecum, Nutt., var. Fendlerianum, T. & G.? 1795 var. leptocladon, T. & G. 1327* (1530* also) brevican!e, Nutt. 1901 Picea pungens, Eng. (P. Pargraeile, Benth., var. effus-1870 Pseudotsuga Douglasii, Carr. 2083 Pinus flexilis, James. um, T. & G. 11. sp. = pubmlm 1815

deflexum, Torr. nutans, T. & G. Parryi, Grav. cernuum, Nutt. Thurberi, Torr.? Thomasii, Torr. reniforme. Torr. inflatum, Torr. angulosum, Benth. 1618 Pterostegia drymarioides, 2067 Centrostegia Thurberi, Gray. 2065 Rumex salicifolius, Wein. erispus, L. venosus, Pursh. hymenosepalus, Torr. 1861 Polygonum erectum, L. tenue, Mx. minimum, Watson. 1221* 1067* Persicaria, L. 1495* Hydropiper, L. 1060 Suada intermedia, Watson. 1017* depressa, var. erecta, Wat 2071* Telexys n. sp.?: Mondyis 1491 Kochia Americana, Watson. 17762 Chenopadium leptophyllum. var. oblongifolium, Watson. ruhrum, L. 1027* Botrys, L. 1330* Atriplex patula, L., var. sub-spicatum, Watson. 1654 confertifolia, Watson, var. canescens, James. Nuttallii, Watson. 1001% 1306* truncata, Gray. 1616 Grayia polygaloides, II. & A. 1642 Eurotia lanata, Moq. 1885 Shepherdia Canadensis, Nutt. 2069* argentea, Nutt. 2074# Celtis occidentalis, var. pumila, Gray. 1848 Urtica/gracilis, Ait., var. occidentalis, Watson) Parietaria Pennsylvaniea, debilis, Forsk. 2068 Cannabis sativa, L. 1497 Betula oceidentalis, Hook. glandulosa, Mx.
Salix nigra, Marsh.
lasiandra, Benth., var.
Fendleriana, Bebh. longifolia, Muhl. var. argyrophylla, And. cordata, Muhl. llaveseens, Nutt. rostrata, Rich. Populus angustifolia, James. Fremontii, var. Wislizeni, tremuloides, Mx. [Watson. 1663 Euphorbia albomarginata, Fendleri, T. & G. [T. & G. serpyllifolia, Pers. dentata, Mx. dietyosperma, Fisch. & Mey. Quercus undulata, Torr., var. Gunnisonii, Eng. reticulata, Torr. 2081 Phoradendron juniperinum, · Comandra pallida, DC. [Eng. 1900 Abies subalpina, var. fallax,

concolor, Lindl.

	$\frac{1922}{1835}$	P. monophylla, Torr. & Frem. Juniperus Californica, Carri-	$\frac{1664}{2095}$	Androstephium breviflorum, [Watson.	2108	Aristida purpurea, Nutt., var. longiseta, Vasey.
		ere, var. Utahensis Eng.	1499	Smilacina amplexicaulis, Nutt.	1787	var. Fendleriana, Vasey.
	2082	Virginiana, L.	1501	stellata, Desf.		Pleuraphis Jamesii, Torr.
2		Ephedra antisyphilitica, C. A.	1866	Prosartes trachycarpa, Wats'n.	2116*	Tricuspis pulchella, Torr.
?		Meyer.	1412	Veratrum album, L.	2109#	Kœleria cristata, Pers.
	2087*	trifurea, Torr.		Zygadenus elegans, Pursh.		Glyceria airoides, Nutt., var.
		Habenaria dilatata, Gray.	2091*	Nuttallii, Gray.	1757	Catabrosa aquatica, Beauv.
	2084	Epipactis gigantea, Dougl.	1674	panieulatus, Watson,	1005%	Brizopyrum spicatum, Hook.,
		Spiranthes Romanzoviana,	1504	Scirpus pungens, Vahl.	1000	var. strictum, Gray.
	1000	[Cham.	2096*	Torreyi, Olney.	2118	
	2089#	Listera convallarioides, Hook.	1016	maritimus, L.	2119	Poa annua, L., "var." (Munro)
		Sisyrinchiam mucronatum, Mx	1853	microcarpus, Presl.	2110	Andina, Nutt., var. pur-
	1635	bellum, Watson.	2097*		91905	[purea, Vasey. Kingii, Watson.
		Alisma Plantago, L., var. Am-		Carex fætida, Allioni.	1.4.3.4条	casia, Sm.
	2000	ericanum, Gray.	2104*			Festuca tenella, Willd., var.
	1864	var. (linear leaves.)	2105*		1010	(F. sciura, Nutt.)
14/		Lemna Vald¢iana (?)	2103#		1868	occidentalis, Hook., var.
/	1693	minor, L.	2098#		1326	Triticum regilopoides, Turcz.
	2079#	polyrrhiza, L.	2101	tenella, Schk.	91140	Hordeum pratense, Huds.
		Zannichellia palustris, L.	2099*		91119	Trisetum alpestre, Beauv.
		Typha latifolia, L.	1535*		2117*	risetum arpestre, Deauv.
		Fritillaria atropurpurea, Nutt.	2102	var. (C. Nebraskensis.)		Panicum Crus-Galli, L.
	1717	pudica, Spreng.		Oryzopsis mierantha, Thurb.		Cenchrus tribuloides, L.
		Erythronium grandiflorum,	2090*	Vaseya comata, Thurb.	1889	Equisctum levigatum, A. Br.
		(Pursh.	1776	Eriocoma cuspidata, Nutt.		Notholæna Parryi, Eaton.
	1766	Calochortus Nuttallii, T. & G.		Stipa spartea, Trin.	2122	Cheilanthes lanuginosa, Nutt.
	2093*	flexuosus, Watson.	1786	comata, Trin.	1511	Pelkea densa, Hook.
		Allium acuminatum, Hook.	2106	viridula, Trin., var.	2121	Adiantum Capillus-Veneris, L.
	1752	bisceptrum, Watson.	2107#			Isoetes Bolanderi, Eng.
	2094章	n. sp.?	1805	speciosa, Torr.		Draba cancifolia, Nutt.
		ttention is called to the follow				The Carlottering Matt.

Attention is called to the following changes: Nos. 1349, 1248, 1372, 1203, 1187, 1439, 1210, 1447, 1444, 1446, 1450, 1231 n. sp., 1374, 1148, 1170, 1469, 1385, 1234, 1205, 1155, 1213, 1230, 1059, 1403, 1109, 1387, 1140, 1327, 1580, 1336, 1221, 1067, 1495, 1060, 1176, 1330, 1591, 1091, 1306, 1491, 1027, 1304, 1599. A few of these are errors of mine; the most are changes made necessary by recent studies of Gray, Watson, etc.

COLORADO FLORA.

Both the var. trifida and pinnatisecta, of Erigeron compositus are included in the No. 170 of my 1878 collection.

Corrections to Colorado Flora.—Polemonium cær. var.—typ. f. 933—Astragalus oroboides, var. Am. A. camp.—adsurgens, (a form.) Festuca ovina, var.—tenella, Willd. Lupinus arg. var. dec.—var. argophylla. 749—Astrag. campestris. Geum strictum—macrophyllum. G. mac.—strictum.

Dr. Gray decides that Erigeron radicatus, Hook., is not E. glandulosns, Porter—(my plant is the latter)—though two years ago he suggested that they were identical. In a private letter he says that my Colorado Brickellia Californica is probably B. Wrightti, "at least not Californica." Saxifraga serpyllifolia—chrysantha, Gray. (See Proc. Am. Acad.)

The utmost pains have been taken to avoid errors. If any authorities, orthography, or names are thought to be erroneous, it will be a favor to me to be notified of it.

TO BOTANISTS.

The following list of species represents my work in California during the time included between June 20th and August 4th. Nearly the whole collection was made at Santa Cruz, on the coast, and at Soda Springs, three miles below Summit, in the Sierras, on the Central Pacific Railroad. Some very interesting plants were collected on the road in Nevada, especially

at Wells. The whole collection contains over 900 species.

I am greatly indebted to the Superintendent, General Passenger Agent, and Mr. B. B. Redding, of the Central Pacific Railroad, for facilities given me over their road, which made so large a collection possible in so short a time. The interest taken by these men in everything pertaining to the welfare of their State is well known, and would require no mention here were it not for their personal interest in my work. At least a dozen new species were discovered, and quite a number of others were added to the already well known flora of the State.

I have been able to use both volumes of the "Flora of California" this year, and so have made some changes in syno-

nyms, and also have corrected some common errors.

The sets contain 507 species. Plants starred are not in the sets.

It is my intention to spend the entire coming season in completing the exploration of the coast, and hope to add a much larger number of species to the collection. Seeds, roots and living plants will be collected by request, as well as herbarium specimens.

MARCUS E. JONES, A. M.,
Salt Lake City, Utah, U. S. A.

Flora of California.—First Fascicle.

COLLECTED BY MARCUS E. JONES, A. M.

	2335	Clematis ligusticifolia, Nutt.,		Arenatia capillaris, Poir.	2332	truncatus, Nutt.
	0	var. Californica, Watson.		Douglasii, T. & G.	2664*	
	2585	Thalietrum polycarrum, Watson			2669	Trifolium n. sp. (?)
porti	2485	Kanunculus Hammura, L. alta	111.2641	Lepigonum macrothecum, F. & M.		multicaule, n. sp. = hvoranthi
	2591	Californiens, Benth.	C 2642*	var.	2519	longipes, Nutt.
		Aquilegia truncata, F. & M.	2369	medium, Fries.	2445	Kingii, Watson.
		Delphinium simplex, Dougl.		Pentaca na ramosissima, H. & A.	2673*	Macræi Hooker & Arnot.
	2410	decorum, F. & M. var.			~ 2329	ciliatum, Nutt.
		Nevadense, Watson.			2674**	var. = J. granile wir
	2353	Californicum, T. & G.		Claytonia perfoliata, Don.	2675*	gracilentum, Torr. & Gray.
	2571	glaueum, Watson.	2628*	Chamissonis, Esch.	~ 2676	involucratum, Willd.
		Aconitum Columbianum, Nutt.	2629#	triphylla, Watson,	2264	tridentatum, Lindley.
	2632*	Actava spicata, L., var.	2402	Spraguea umbellata, Torrey.	2263	var. obtusiflorum, Watson.
		arguta, Torrey.	2460	var. montana, Jones, New	. 2672	var. melananthum, Watson.
		Pæonia Brownii, Dougl.	2648*	Hypericum Scouleri, Hooker.	2262	pauciflorun, Nutt.
	2616*	Berberis repens, Lindley.	2647	anagalloides,Cham. & Schl.	2595	microcephalum, Pursh.
	2617*	Nuphar polycephalum, Eng.	2649*	Malva borealis, Wallman.	2230	var.
	2315	Platystemon Californicus, Benth.			- 2330	microdon, Hooker & Arnot.
	2226	Eschscholtzia Californica, Cham.		humilis, Gray.	2497	cyathiferum, Lindley.
	2622*	Alyssum maritimum, L.		Linum perenne, L.	2671*	barbigerum, Torrey.
_		Draba stenoloba, Ledeb., var.	2854*	spergulinum, Gray.	2670*	fucatum, Lindley.
	2635*	Dentaria tenella, Pursh.		Geranium Carolinianum, L.		Melilotus parviflora, Desf.
		Cardamine oligosperma, Nutt.		Erodium cicutarium, L' Her.	2678*	alba, Lam.
ø		Arabis Lyallii, Watson.		Oxalis Oregana, Nutt.		Medicago sativa, L.
	2619*	Holbællii, Hornem.	2652*	corniculata, L.	2680*	denticulata, Willd.
		Streptanthus tortuosus, Kellogg.		Euonymus occidentalis, Nutt.		Hosackia crassifolia, Benth.
	2618*	Cheiranthus Menziesii, B. & 11.	= 2258	Rhamnus Californica, Esch. A	-2682*	oblongifolia, Benth.
-	2640*	Caulanthus pilosus, Watson.	₫ 2654*	var. tomentella, Watson.	2501	Torreyi, Gray.
	2620*	Erysimum asperum, DC. The hypothe	2554	Purshiana, DC.	2683	
	2633*	Brassica nigra, Boissier.		Ceanothus thyrsiflorus, Esch.	-	var. Nevadensis, Gray.
		Barbarea vulgaris, R. Br., var.	2468		2234 22 60	rigida, Benth.
		arcuata, Koch.	-2456	cordulatus, Kellogg.	2684*	maritima, Nutt.
_	2414	Sisymbrium incisum, Eng., *ar.	2242	papillosus, Torr, & Gray.	2228	var. (perfectly smooth.)
	2634*	reflexum, Nutt.	2657*	prostratus, Benth,	2226	strigosa, Nutt.
		Nasturtium obtusum, Nutt.		. Esculus Californica, Nutt.		parviflora, Benth.
	2638*	officinale, R. Br.			2265	Purshiana, Benth.
		Lepidium intermedium, Gr.	2477		± 2685*	subprimatar T. & G. Noviver 1872
	. 2039	(with petals)		Negundo Californicum, T. & G.	2259	brachycarpa, Benth.
	2391	Senebicra didyma, Persoon.		Rhus laurina, Nutt. Ht 14. 5. conte	2257	glabra, Torrey.
	2254	Helianthemum scoparium, Nutt.		Thermopsis Californica, Watson.	- 101	decumbens, Benth.
		Viola ocellata, Torr. & Gray.			2686	Lar Nevadensis, Watson.
	2040 227 I	sarmentosa, Dougl.	2322 2662*	Lupinus arboreus, Sims.	233I	tomentosa, Hooker & Arnot.
	2659			var.	2365	Psoralea orbicularis, Lindley,
		Polygala cucullata, Benth.	2380	Chamissonis, Eschscholtz.	2692*	strobilina, Hooker & Arnot.
	2318	Frankenia grandifolia, Cham. &	2663*	rivularis, Douglas.	2323	macrostachya, DC.
	2502	Silene Lyallii, Watson & or [Sch (iallica, I	2324	var. latifolius, Watson.	2691*	physodes, Dougl.
	2325	Manufacti Deal		Burkei, Watson.	2690*	Astragalus Purshii, Dougl.
	2623*	Menziesii, Hooker.	-24II	Andersoni, Watson.	2687*	Vicia gigantea, Hooker.
	2624*	Californica, Durand.	-2546	var. (?)-Grayi, Watson:	268o*	exicua Nutt
	2625*	occidentalis, Watson.	2406	calcaratus, Kellogg.	∍ 2g88*	Lathyrus vestitus, Nutt.
	2430	verecunda, Watson.	2395	minimus, Dougl.	2693*	Prunus emarginata, Walpers.
		Cerastium viscosum, L.	2261	nanus, Dougl.		Spiræa betulæfolia, Pallas.
		Stellaria media, L.	2665*	micranthus, Dougl.	2506	discolor, Pursh, var. dumosa, W.
	2412	umbellata, Turcz.	2666*	var. bicolor, Watson.	2694*	Neillia opulifolia, Benth. & Hook.
	2626*	longipes, Goldie.	2667	trifidus, Torrey.	2555	Rubus Nutkanus, Mocino.

				_
	2695	Rubus ursinus, Cham. & Schl.	2730*	Mesembry
	2696	Purshia tridentata, DC,		erale
	2697* 2698*	Geum macrophyllum, Willd. Fragaria Virginiana, Ehrh.	2270	Mollugo v
	2098	var. Illinoensis, Gray.	2200	Eryngium var.
	2699*	Potentilla glandulosa, Lindl.	2735*	\$anicula N
	2481	var. Nevadensis, Watson.	2404	tuberos
	2700	rivalis, Nuttall, var. mille-	2527	Carum Gai
	0500	grana, Watson.	2291	Kellog
	2523 2551	Breweri, Watson.	2734* 2511	Osmorrhiza Glycosma
	2536	gracilis, Dongl., var. flabel-	2733*	(Enanthe (
	30	liform's, T. & G.	2397	Ligusticun
	2706*	gelida, Meyer.	2582	Selinum ca
	2705* 2409	fruticosa, L.	2584	Angelica I
	2251	Californica, Cham. & Schl.	-2421 2732*	Peucdanur Heracleum
	2238	Adenostoma fasciculatum, H. & A.	2731*	Ferula diss
	2702*	Rosa Californica, Cham. & Schl.	2319	Dancus pu
	2703*	var. ultramontana, Watson.	2375	Aralia Cali
	2704* 2701*	gymnocarpa, Nutt. Pirus sambucifolia, Cham. & Sehl. ?	2736* 2453	Cornus Cal stolonif
	2711*	Saxifraga Virginiensis, Mx.	2302	Sambucus
	2713**	nivalis, L.	2737	racemo
	2712 [#]	integrifolia, Hooker.	2289	Symphoric
	2413	bryophora, Gray.	2469	oreophi
	2567 2279	punctata, L. Boykinia occidentalis, T. & G.	2738*	Lonicera h
	2710*	Tellima grandiflora, Dougl.	2376	var. va
	2233	Tiarella unifoliata, Hooker.	2739*	involuc
	2566	Mitella Breweri, Gray.	2405	conjugi
	2510	Heuchera rubescens, Torrey.	2440	Kelloggia
	2708 2658*	mierantha, Dougl. — Whipplea modesta, Torrey.	2214	Galium Ca Nuttall
	2378	Ribes Menziesii, Pursh.	2454	bifoliur
	2364	var.	2527	trifidun
	2508	var.	2473	multifle
	2476 2202	leptanthum, Gray. divaricatum, Dougl.	2900*	Valeriana
	2559	lacustre, Poir., var. molle, Gray.	2607 2314	Eupatoriuu Grindelia x
	2707*	viscossisimum, Pursh.	~J~~r	var.
	2372		2750*	Pacifica
	2500		2606	Chrysopsis
	2509 2560		2749 2489	Oregan Brewer
	2580	obtusatum, Gray.	2748	Aplopappu
	2714*	Lythrum alatum, Pursh.	2747*	Bigelovia į
	a=a0%	var. linearifolium, Gray.	2745*	Solidago o
	2728* 2494	Epilobium spicatum, L. coloratum, Muhl.	2746*	Cariforn
	2727	origanifolium, Lam.	2320 2744*	Aster cane
	, ,	(pubescent.)	2743*	radulin
	2726*	Franciscanum, Barbey.	2742*	adscene
	2725* 2586	glaberrimum, Barbey.	2541	var,
	2724	paniculatum, Nutt. Gayophytum racemosum, T. & G.	2525 2532	integri! Anders
	2403	diffusum, T. & G.	2374	Erigeron fo
	2722**	(Enothera biennis, L., var.	2542	glabell
		hirsutissima, Gray.	2431	salsugii
	2721* 2371	heterantha, Nutt.	2741*	Coulter
	2231	micrantha, Hornemann.	2740° 2382	Canade Baecharis
	2723*	dentata, Cavanilles.	2273	Dougla
	2229	strigulosa, T. & G.	2777	Adenocaul
	2295	Godetia quadrivulnera, Spach. tenella, Watson.	2759*	Psilocarphy
-	2720* 2348	amoena Lilia	2758**	Filago Cal
	2255	Clarkia elegans, Dougl.	2544 2756*	Antennaria alpina,
_	2719*	rhomboidea, Dougl.	2755	luzuloid
	2718×	Eucharidium concinnum, F. & M.		arger
	2358	Boisduvalia densiflora, Watson.	2390	Anaphalis Chaphalin
-	.2715 2717*	glabella, Watson Amirica. Heterogaura Californica, Rothr.	2753* 2754*	Gnaphaliui var.
	2716	Circæa Pacifica, Asch. & Mag.	2754** 2301	Spreng
	2729*	Mentzelia dispersa, Watson.	2752*	microce
	2267	Megarrhiza Californica, Torrey.	2388	ramosis
	2334	Datisca glomerata, B. & 11.	2286	palustre

9.3.A.

(2)		
sembryanthemum æquilat-	2304	Gnaphalium purpureum, L.
erale, Haworth.	2277	Franseria bipinnatifida, Nutt.
lugo verticillata, L.	2751*	Chamissonis, Less.
ngium petiolatum, Hooker,	2604	Balsamorhiza sagittata, Nutt.
var. armatum, Watson. icula Menziesii, II. & A.	2482 2484	Wyethia mollis, Gray. Helianthella Californica, Gray.
tuberosa, Torrey.	2248	Madia Nuttallii, Gray.
um Gairdneri, B. & H.	2597	elegans, Don.
Kelloggii, Gray.	2211	sativa, Molina, var. congesta,
norrhiza nuda, Torrey. cosma occidentale, Nutt.	000#	T. & G.
anthe Californica, Watson.	2297 2341	var. racemosa, Gray. var.
	2467	var.
	2761	var, dissitiflora, Gray.
gelica Breweri, Gray.	2443	glomerata, Hooker.
edanum macrocarpum, Nutt. racleum lanatum, Michx.	2290 2210	filipcs, Gray. Hemizonia corymbosa, T. & G.
ula dissoluta, Watson.	2285	macradenia, DC.
icus pusillus, Michx.	2762*	pungens, T. & G.
lia Californica, Watson.	2373	łuzulæfolia, DC.
nus Californica, Meyer. stolonifera, Mx.	2760*	plumosa, Gray.
abucus glauca, Nutt.	2349 2777*	Lagophylla ramosissima, Nutt. Jaumea carnosa, Gray.
racemosa, I	2220	Bahia artemisiæfolia, Less.
phoricarpus racemosus, Mx.	2775**	confertiflora, DC.
oreophilus, Gray.	2776	var. trifida, Gray.
icera hispidula, Dougl., var. subspicata, Gray.	2774**	Ianata, DC., var. grandiflora, Gray,
var. vacillans, Gray.	2491	integrifolia, DC.
involucrata, Banks.	2773**	arachnoidea, F. & M.
conjugialis, Kellogg.	2333	Monolopia major, DC.,
loggia galloides, Torrey. um Californicum, II. & A.	2478	var. lanceolata, Gray.
Nuttallii, Gray.	2478 2338	Chænactis Douglasii, H. & A. Helenium puberulum, DC.
bifolium, Watson.	2772*	Achillea millefolium, L.
trifidum, L.	2392	Matricaria —?
multiflorum, Kellogg.	2771*	discoidea, DC.
eriana sylvatica, Rich. vatorium occidentale, Hooker.	2770** 2354	Tanacetum Huronense, Nutt. Artemisia Californica, Less.
idelia robusta, Nutt.,	2537	Ludoviciana, Nutt.
var. latifolia, Gray,	2767#	dracunculoides, Pursh.
Pacifica, Jones, n. sp. = 9, wasa	2768*	biennis, Willd.
ysopsis (?) : Eriper miner Oregana, Gray. : C	2254 2769*	pychnocephala, DC. trifida, Nutt. (?)
Breweri, Gray. Englisher	2765*	Senecio vulgaris, L.
opappus Bloomeri, Gray.	2574	integerrimus, Nutt. = 5. lujum
elovia graveolens, Gray.	2766*	triangularis, Hooker.
dago occidentalis, Nutt. Californica, Nutt.	2763*	Arnica discoidea, Benth.
	2572 2764	latifolia, Bongard. Iongifolia, Eaton.
er caneseens, Pursh.	2788*	Cnicus undulatus, Gray.
radulinus, Gray.	2789*	Andersonii, Gray.
adscendens, Lindley. var.	2306	Californicus, Gray. Silybum Marianum, Gærtn.
integrifolius, Nutt.	2205	Centaurea solstitialis, L.
Andersonii, Gray.	2398	Microseris nutans, Gray.
geron foliosus, Nutt.	2790*	Tragopogon porrifolius, L.
salsuginosus, Gray.	2346 2791**	Stephanomeria paniculata, Nutt. minor, Nutt.
Coulteri, Porter. = Invitation	2778*	Rafinesquia Californica, Nutt.
Canadensis, L.	2221	Hypochæris glabra, L.
charis pilularis, DC.	2786	Malacothryx obtusa, Benth.
Douglasii, DC. nocaulon bicolor, Hooker.	2785* 2784*	saxatilis, T. & G.
ocarphus tenellus, Nutt.	2/04	Crepis occidentalis, Nutt. var. Nevadensis, Kellogg.
go Čalifornica, Ńutt.	2783*	aeuminata, Nutt.
ennaria dioica, Gærtn	2350	Troximon apargioides, Less.
dpina, Gærtn.	2781*	grandiflorum, Gray.
uzuloides, T. & G., var. argentea, Gray.	2782* 2284	retrorsum, Gray. Hieracium albiflorum, Hooker.
phalis margaritacea, Benth.	2780*	triste, Willd., var. gracile, Gray.
phalium decurrens, Ives.	2779*	Sonchus oleraceus, L.
var. Sprangalii Haal: Vr Agu	2799*	Heterocodon rariflorum, Nutt.
Sprengelii, Hook. & Arn. microcephalum, Nutt.	2275 2798*	Campanula prenanthoides, Durand. Vaccinium Myrtillus, L., var.
ramosissimum, Nutt.	2/90	microphyllum, Hooker.
palustre, Nutt.	2797*	occidentale, Gray.

22796						
2806 Arbutus Menziesii, Pursh. 2237 2796		2272	Vaccinium ovatum, Pursh.		2223	
2796		2800	Arbutus Menziesii, Pursh.			Cha
Platyphyflum, Gray. 2429 2794			Arctostaphylos tonientosa, Doug	l.		Nic
2795		2790	pungens, H. B. K., var.		_	Scr
2794		2705*				Col
2335				period		Dar
2793 * Ledum glandulosum, Nutt. 2823*				,		Per
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2817* Hydrophyllum occidentale,						
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2816* Nemophila parviflora, Dougl. 2836* 2834* 2818* circinata, Jagq. f. 2835* n. sp. ? 7 1 2475 2475 2475 2475 2475 2475 2475 2475		2817*			2419	4 7
2815* Draperia systyla, Torrey. 2847 2813* circinata, Jacq. f. 2835* 2359 n. sp. ? 2475 2313 tanacetifolia, Benth. 2814* ramosissima, Dougl. 2416 hydrophylloides, Torrey. 2268 2496 Emmenanthe penduliflora, Benth. 2357 Amsinckia intermedia, F. & M. 2212 2832 Heliotropium Curassavicum, L. 2832 Feritrichium Chorisianum, DC. 2831* Tertrichium Chorisianum, DC. 2831* Tertrichium Chorisianum, DC. 2832 var. subglochidiatum, Gray. 2838* leiocarpum, Watson. 2838* var. subglochidiatum, Gray. 2839* var. subglochidiatum, Gray. 2847* var. 2846* var. truxillensis, Choisy. 2848* var. truxillensis, Choisy. 2848* var. bongiloba, Eng. 2821* var. longiloba, Eng. 2818* var. longiloba, Eng.		0-72			2853*	Apl
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2813** circinata, Jacq. f. 2835** 2359 n. sp. ? 2475 2313 tanacetifolia, Benth. 2216 Marchine Mydrophylloides, Torrey. 2268 2269 2416 hydrophylloides, Torrey. 2268 2269 2496 Nama Lolbii, Gray. 2594 Saya Heliotropinm Curassavicum, L. 2832** 2819* Eritrichium Chorisianum, DC. 2831** 2357 Amsinckia intermedia, F. & M. 2222 Saya Saya Saya Saya Saya Saya Saya						Mo
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2339 leiocarpum, Watson. 2838* 2337 muriculatum, A. DC. 2839* 2472 var. 2276 2818* var. ambiguum, Gray. 2379 2246 Convolvulus luteolus, Gray. 2850* 2296 arvensis, L. 2847* 2317 Cressa Cretica, L. 2849* var. Truxillensis, Choisy. 2848* 2490 Cuscuta Californica, Choisy. 2848* var. breviflora, Eng. 2384 2821* var. longiloba, Eng. 2861* 2316 salina, Eng. 2845 2316 Solanum nigrum, L. 2504						
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2317 Cressa Cretica, L. var. Truxillensis, Choisy. 2849* 2848* 2490 Cuscuta Californica, Choisy, var. breviflora, Eng. 2846* 2384 1 2821* var. longiloba, Eng. 2861* 2861* 2316 salina, Eng. 2845 2224 Solanum nigrum, L., 2504						Oxy
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2821* var. longiloba, Eng. 2861* 2316 salina, Eng. 2845 2224 Solanum nigrum, L., 2504		-77	var. breviflora. Eng.			Poly
2316 salina, Eng. 2845 2224 Solanum nigrum, L., 2504		2821*				. 0.9
2224 Solanum nigrum, L., 2504						
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umbelliferum, Esch.	2423	Polygonum imbricatum, Nutt.
Chamæsaracha nana, Gray.	2844*	
Nicotiana attenuata, Torrey.	2545	Bistorta, L.
Scrophularia Californica, Cham.	2613	polymorphum, Ledeb.
Collinsia Torreyi, Gray.	2843*	
rate monet form	2503	Eriogonum umbellatum, Torrey.
Pentstemon Menziesii, Hooker.	2611	Lobbii, T. & G.
	≈24I7	incanum, T. & G. = E, merifolium
glaber, Pursh.	2219	latifolium, Smith.
var. (densely pubescent.) deustus, Dougl.	2363 2842*	nudum, Dougl.
confertus, Dougl.,	2841*	var. pauciflorum, Watson. microthecum, Nutt.
var. cæruleo-purpureus, Gray.		vimineum, Dongl.
gracilentus, Gray.	- 2408	Oxytheca n. sp. = 5 . e/ter & molecular
azurens, Benth., var. parvulus,	2393	Charge the Dougle Bruth grin and its
var. [Gray.		Chorizanthe Douglash, Benth. (
	-2327	pungens, Benth.
heterodoxus, Gray. (?) var.	2386	Proportion description in the St. VI
Mimulus leptaleus, Gray.)	2239 2851*	Pterostegia drymarioides, F. & M. ⁴ Amarantus retroflexus, L.
101-(2)	2852*	blitoides, Watson.
nanus, Hook, & Arn.	2858*	Chenopodium ambrosioides, L.
glutinosus, Wendland.	2859*	var. anthelminticum, Gray.
Lewisii, Pursh.	2860*	capitatum, Watson,
lutens, L.	2278	Atriplex Jeucophylla, Dietrich.
	=2370	Californica, Moquin.
rubellus, Gray. floribundus, Dougl.	2361	Hesperocnide tenella, Torrey.
moschatus, Dougl.	2857#	Platanus racemosa, Nutt. Eremocarpus setigerus, Benth.
primuloides, Benth.	2383	Croton Californicus, Muell. Arg.
Veronica alpina, L.	2855*	Euphorbia ocellata, Dur. & Hilg.
Castilleia foliolosa, II. & A.	2862*	serpyllifolia, Pers.
latifolia, Hook. & Arn.		Alnus rhombifolia, Nutt.
parviflora, Bong.	2863*	incana, Willd., var.
miniata, Dongl, var.	0257	Virescens, Watson.
Orthocarpus ——— (?)	2351	Myrica Californica, Cham. Salix lævigata, Bebb.
pilosus, Watson.	2450	lasiandra, Benth., var.
purpurascens, Benth.	-43-	typica, Bebb.
tenuifolius, Benth.	2869*	lasiolepis, Benth.
lacerus, Benth.	2868*	flavescens, Nutt.
Cordylauthus tenuis, Gray,	2867*	Sitchensis, Sanson, var.
maritunus, Nutt, Pedicularis racemosa, Dougl.	2446	angustifolia, Bebb.
Grænlandica, Retz.	2446 2865#	Californica, Bebb. Populus tremuloides, Mx.
attollens, Gray.	2866*	trichocarpa, T. & G.
semibarbata, Gray,	2483	Quercus chrysolepis, Liebm., var.
Aphyllon Californicum, Gray,		vacciniifolia, Eng.
Mentha Canadensis, L.	2292	agrifolia, Nee.
Mentha Canadeusis, L. Monardella villosa, Benth.	2292 2362	agrifolia, Nee. Wislizeni, A. DC., var.
Mentha Canadeusis, L. Monardella villosa, Benth. var. leptosiphon, Torrey.	2362	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray.	2362 2871*	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth.	2362 2871* 2298	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray.	2362 2871* 2298	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook, & Arn. Castanopsis chrysophylla, A. DC.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth.	2362 2871* 2298	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urtieifolius, Benth.	2362 2871* 2298	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook, & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urtieifolius, Benth. Scutellaria Californica, Gray.	2362 2871* 2298 2872* 2873* 2601* 2457	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker,
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus artieifolius, Benth. Scutellaria Californica, Gray. Brunella vulgaris, L.	2362 2871* 2298 2872* 2873* 2601* 2457 2602	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker, var. (seeds exposed.)
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urtieifolius, Benth. Scutellaria Californica, Gray. Brunella vulgaris, L. Stachys bullata, Benth.	2362 2871* 2298 2872* 2873* 2601* 2457 2602 2355	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook, & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker, var. (seeds exposed.) Cupressus Goveniana, Gordon.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urtieifolius, Benth. Scutellaria Californica, Gray. Brunella vulgaris, L. Stachys bullata, Benth. Trichostema oblongum, Benth.	2362 2871* 2298 2872* 2873* 2601* 2457 2602 2355 2600	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker, var. (seeds exposed.) Cupressus Goveniana, Gordon. Libocedrus decurrens, Torrey.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urtieifolius, Benth. Scutellaria Californica, Gray. Brunella vulgaris, L. Stachys bullata, Benth. Trichostema oblongum, Benth.	2362 2871* 2298 2872* 2873* 2601* 2457 2602 2355	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker, var. (seeds exposed.) Cupressus Goveniana, Gordon. Libocedrus decurrens, Torrey. Sequoia sempervirens, Endl.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urtieifolius, Benth. Scutellaria Californica, Gray. Brunella vulgaris, L. Stachys bullata, Benth. Trichostema oblongum, Benth. Verbena officinalis, L. Plantago major, L.	2362 2871** 2298 2872** 2873** 2601** 2457 2602 2355 2600 2299 2463 2874*	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker, var. (seeds exposed.) Cupressus Goveniana, Gordon. Libocedrus decurrens, Torrey. Sequoia sempervirens, Endl. Abies concolor, Lindley. magnifica, Murray.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urtieifolius, Benth. Scutellaria Californica, Gray. Brunella vulgaris, L. Stachys bullata, Benth. Trichostema oblongum, Benth. Verbena officinalis, L. Plantago major, L. maritima, L.	2362 2871* 2298 2872* 2873* 2601* 2457 2602 2355 2600 2299 2463 2874* 2875*	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook, & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker, var. (seeds exposed.) Cupressus Goveniana, Gordon. Libocedrus decurrens, Torrey. Sequoia sempervirens, Endl. Abies concolor, Lindley. magnifica, Murray. Pseudotsuga Douglasii, Carr.
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Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urticifolius, Benth. Scutellaria Californica, Gray. Brunella vulgaris, L. Stachys bullata, Benth. Trichostema oblongum, Benth. Verbena officinalis, L. Virgiuica, L., var. maxima, Gray. Abronia umbellata, Lam. latifolia, Esch. Oxyria digyna, Campd. Rumex salicifolius, Weinm. maritimus, L. pulcher, L. acetosella, L. Polygonum Paronychia, Chant. &	2362 2871** 2298 2872** 2601** 2457 2602 2355 2600 2299 2463 2874** 2876* 2452 2468 2492 2476* 2458 2422 2876* 2457 2458 2422	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker, var. (seeds exposed.) Cupressus Goveniana, Gordon. Libocedrus decurrens, Torrey. Sequoia sempervirens, Endl. Abies concolor, Lindley. magnifica, Murray. Pseudotsuga Douglasii, Carr. Tsuga Pattoniana, Eng. Pinus monticola, Dougl. Lambertiana, Dougl. ponderosa, Dougl., var. Jeffreyi, contorta, Dougl., var. [Eng. Murrayana, Eng. insignis, Dougl. Habenaria elegans, Bolander. leucostachys, Watson.
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Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urtieifolius, Benth. Scutellaria Californica, Gray. Brunella vulgaris, L. Stachys bullata, Benth. Trichostema oblongum, Benth. Verbena officinalis, L. Virginica, L.,var. maxima, Gray. Abronia umbellata, Lam. latifolia, Esch. Oxyria digyna, Campd. Rumex salicifolius, Weinm. maritimus, L. pulcher, L. acetosella, L. Polygonum Paronychia, Chant. & Shastense, Brewer. aviculare, L.	2362 2871** 2298 2872** 2601** 2457 2600 2299 2463 2875* 2565 2462 2877* 2458 2422 2876* 2244 2879* 2578 2878*	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker, var. (seeds exposed.) Cupressus Goveniana, Gordon. Libocedrus decurrens, Torrey. Sequoia sempervirens, Endl. Abies concolor, Lindley. magnifica, Murray. Pseudotsuga Douglasii, Carr. Tsuga Pattoniana, Eng. Pinus monticola, Dougl. Lambertiana, Dougl. ponderosa, Dougl., var. Jeffreyi, contorta, Dougl., var. [Eng. Murrayana, Eng. insignis, Dougl. Habenaria elegans, Bolander. leucostachys, Watson. Spiranthes Romanzoffiana, Cham. porrifolia, Lindley.
Mentha Canadensis, L. Monardella villosa, Benth. var. leptosiphon, Torrey. var. glabella, Gray. odoratissima, Benth. Micromeria Douglasii, Benth. Pogogyne scrpylloides, Gray. Audibertia stachyoides, Benth. Lophanthus urtieifolius, Benth. Scutellaria Californica, Gray. Brunella vulgaris, L. Stachys bullata, Benth. Trichostema oblongum, Benth. Verbena officinalis, L. Virginica, L.,var. maxima, Gray. Abronia umbellata, Lam. latifolia, Esch. Oxyria digyna, Campd. Rumex salicifolius, Weinm. maritimus, L. pulcher, L. acetosella, L. Polygonum Paronychia, Chant. & Shastense, Brewer. [Sch.	2362 2871** 2298 2872** 2601** 2457 2600 2299 2463 2875* 2565 2462 2877* 2458 2422 2876* 2244 2879* 2578 2878*	agrifolia, Nee. Wislizeni, A. DC., var. frutescens, Eng. Kelloggii, Newberry. densiflora, Hook. & Arn. Castanopsis chrysophylla, A. DC. Corylus rostrata, Ait., var. Californica, A. DC. Arceuthobium divaricatum, Eng. Juniperus occidentalis, Hooker, var. (seeds exposed.) Cupressus Goveniana, Gordon. Libocedrus decurrens, Torrey. Sequoia sempervirens, Endl. Abies concolor, Lindley. magnifica, Murray. Pseudotsuga Douglasii, Carr. Tsuga Pattoniana, Eng. Pinus monticola, Dougl. Lambertiana, Dougl. ponderosa, Dougl., var. Jeffreyi, contorta, Dougl., var. Jeffreyi, contorta, Dougl., var. [Eng. Murrayana, Eng. insignis, Dougl. Habenaria elegans, Bolander. leucostachys, Watson. Spiranthes Romanzoffiana, Cham.

		Midwellia ?		(4)		
	2881*	lacunosum, Watson.	2008*	Carex filifolia, Nutt.	2579	Aira cæspitosa, L.
_	2569	platycaule, Watson.	3010*	Gayana, Desv.	2924	elongata, Hook.
			2500	festiva, Dew., var. gracilis, Olney.		var. tenuis, Vasey.
	2885*	terrestris, Kellogg.	2533	athrostachya, Olney.	2947*	danthonioides, Trin.
	-	ixioides, Watson.	2283	Deweyana, Schwein, var.	2925	Mclica imperfecta, Trin.
	2249	Camassia esculenta, Lindley.	2203	Bolanderi, W. Boott.	2563	var. (2 flowered)
		Chlorogalum pomeridianum, Kunth	24.48	n. sp. (?)		stricta, Bolander.
	2213		3011*	echinata, Murr. (?) var.	2479 2934*	Harfordii, Bolander.
	2886	Smilacina amplexicaulis, Nutt.				Glyceria nervata, Trin.
	2887*	sessilifolia, Nutt.	2407	scoparia, Schl.		
		Lilium Washingtonianum, Kell.	25.5	var. fulva, W. Boott.	2577	pauciflora, Presl.
	244 I	parvum, Kellogg.	2515	adusta, Boott.	2517*	Atropis—?
	2281	pardalinum, Kellogg, var.		var. congesta, W. Boott.	2929*	Californica, Munro.
	. 00 V	angustifolium, Kellogg.	3012*	Buxbaumii, Walıl.	2526	tenuifolia, Thurber.
		Calochortus Weedii, Wood.	3013	atrata, L., var. erecta, W. Boott.		Poa arctica, R. Br.
	2890*	luteus, Dougl., var.	2449	Kelloggii, W. Boott.	2926*	Bolanderi, Vasey, Ms. New.
		oculatus, Watson.	2520	vulgaris, var. juncella, Fries.		Briza media, L.
	2418	Nuttallii, T. &. G.	3014*	angustata, Boott.	2932*	Festuca Myurus, L.
		Prosartes Hookeri, Torrey.	3017*	Jamesii, Torrey.	2931*	ovina, L.
		Clintonia Andrewsiana, Torrey.	2345	laciniata, Boott.	2516*	var. duriuscula, Gray.
		Trillium ovatum, Pursh.	3015**	podocarpa, R. Br.	2933	Bromus maximus, Desf.
		Veratrum Californicum, Durand.	2534	Raynoldsii, Dewey.	2287	ciliatus, L.
		Zygadenus venenosus, Watson.	2530	globosa, Boott.	2487	Ceratochloa breviaristata, Hooker.
		Lemna Valdiviana, Philippi.	2514	Whitneyi, Olney.	2935*	Lolium perenne, L.
		Phyllospadix Torreyi, Watson.	2907*	luzulæfolia, W. Boott.	2308	temulentum, L.
	2310	Potamogeton gramineus, L.	2492	fulya, Good., var.	2522	Hordeum nodosum, L.
	2309	pectinatus, I		Hornschuchiana, Boott.	2938	Elymus condensatus, Presl.
	2896*	Luzula divaricata, Watson.	3016*	filiformis, 1, var. latifolia,	2937	Sibirieus, L.
	2897	comosa, Meyer.	2493	vesicaria, L. [Boeckeler.	2480	Sitanion, Schult.
	2898*	var. macrantha, Watson.	2307	Paspalum distichum, L.	2939*	Equisetum robustum, A. Braun.
	2899*	var. subsessilis, Watson.	2294	Panicum dichotomum, I	2944**	Poypodium Californicum, Kaulf.
	2385	Juneus Leseurii, Bolander.	2910*	Sctaria glauca, Beauv.	2206	Gymnogramme triangularis, Kaulf.
	2340	effusus, L., var. brunneus, Eng.	2912*	Phleum alpinum, L.	2438	Cheilanthes gracillima, Eaton.
	2293	patens, Meyer.	2911*	Alopecurus pratensis, L.	2943*	Pellæa andromedæfolia, Fce.
	2573	Parryi, Eng.	2913*	Hierochloa macrophylla, Thurber.	2252	Ornithopus, Hooker.
	2903*	bufonius, L.	2914*	Vilfa depauperata, Torrey.	2436	densa, Hooker.
	2936*	var. fasciculiflorus, Eng.	240 I	gracillima, Thurber.	2437	Bridgesii, Hooker.
	2498	tenuis, Willd.	2915*	var.	2442	Crytogramme acrostichoides, R. Br.
	2902	longistylis, Torrey.	2529	Sporobolus Jonesii, Vasey, n. sp.	2209	Pteris aquilina, L., var.
	2524	var. latifolia, Eng.	2352	Polypogon littoralis, Smith.		lanuginosa, Bong.
	2558	xiphioides, Meyer, var.		Agrostis alba, L.	2240	Adiantum emarginatum, Hooker.
		montanus, Eng.	2618*	exarata, Trin. (?) var.	2610	pedatum, L.
	2387	phæocephalus, Eng.	2919*	varians, Trin.	2232	Lomaria spicant, Desvaux.
		"forma angustifolia," Eng.	2305	Gastridium australe, Beauv.	2280	Woodwardia radicans, Smith.
	2400	var. gracilis, Eng.	2917*	Calamagrostis Canadensis, Beauv.		var. Americana, Hooker.
	2343	var. paniculatus, Eng.	2583	Stipa occidentalis, Thurber.	2942*	Asplenium Filix-feemina, Bernh.
	2562	Mertensianus, Meyer.	2553	Sibirica, L.	2208	Aspidium rigidum, Swartz.
	2499	Scirpus sylvaticus, I, var.	2920	viridula, Trin.		var. argutum, Eaton.
		digynus, Boeck.		Danthonia Californica, Bol., var.	2207	munitum, Kaulf.
	2906*	Hemicarpha subsquarrosa, Nees.	2922	var. unispicata, Thurber.	2941	aculeatum, Swartz, var.
		Eleocharis acicularis, R. Br.	2923	Trisetum subspicatum, Beauv.		angulare, Braun.
	2612	palustris, R. Br.	, ,	var.	2901*	var. scopulinum, Eaton.
	2904*	rostellata, Torrey.	2518	var. muticum, Bolander.		Cystopteris fragilis, Bernh.
	,	var. occidentalis, Watson.		(T. Wolfii, Vascy.)	2311	Chara ——
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Nevada Plants.

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2178*	Aquilegia formosa, Fischer.	2189*	Sedum Rhodiola, DC.	2996*	Chænactis stevioides, II. & A.
2179*	Arabis platysperma, Gray.	2193*	Eupatorium occidentale, Hooker.		carphoclinia, Gray.
2997*	Sisymbrium canescens, Nutt.	2191	Aplopappus nanus, Eaton.		Malacothryx Torreyi, Gray.
	var. (No. 98, Watson.)	~ 2196	tenuicaulis, Eaton.		Stephanomeria exigua, Nutt.
	Caulanthus procerus, Watson.	2197*	lanccolatus, T. & G., var.		Glyptopleura marginata, Eaton.
	Lepidium flavum, Torrey.		Vaseyi, Parry?		Lygodesmia spinosa, Nutt.
	montanum, Nutt.		uniflorus, T. & G.		Phaeclia sericea, Gray, var.
2180	Cleomella parviflora, Gray.		Bigelovia Douglasii, Gray, var.		Gilia pungens, Benth.
	plocasperma, Watson.		stenophylla, Grav.		var. squarrosa, Gray.
	Stellaria Kingii, Watson.	2194	var. puberula, Gray.		floccosa, Gray.
	Sidalcea malvæflora, Gray.		n. sp. (2) 1/45	, ,	Gentiana serrata, Gunner.
	Lupinus uncialis, Watson.		Erigeron asperugineus, Gray.		Erythræa Nuttallii, Watson.
	diphysus, Gray.		Townsendia scapigera, Eaton.		Asclepias Mexicana, Cav.
	Astragalus filipes, Torrey.		Aster arenarioides, Eaton.		Psathyrotes annua, Gray.
2184	V. 1.2		var. (pubescent.)		Pentstemon glaber, Pursh., var.
	Geyeri, Gray.		Layia heterotricha, II. & A.	950	(puberulent, anthers glabrous.)
2185	Dalea polyadenia, Torrey.	2040	Helianthus Nuttallii, T. & G.	2050*	Watsoni, Gray.
2186*	Trifolium u sp (?) : warnen	man	(very slender form.)	=2060*	confertus, Dougl., var. p. demit
2187	Ivesia Kingii, Watson.	2048*	Actinella Richardsonii, Nutt.,	900	cæruleo-purpureus, Gray.
	Heuchera cylindrica, Dougl.		var. canescens, Eaton.		Mimulus primuloides, Benth.
	var. alpina, Watson.		Tetradymia glabrata, T. & G.		Veroniea peregrina, L.
	The state of the s	-930	Transpirent Secondary 11 cc O.	2999	oranica peregrida, D.

Januaria aculiation

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2963 Cordylar 2987* Abronia 2966* Eriognun 2967* Baile 2968 micro 2969* Plum 2970* nudu obl 2988* Oxytheca 2995* Chorizan	pus luteus, Nutt. thus ramosus, Nutt. turbinata, Torrey. n vimineum, Dougl. yi, Watson.	2974* 2975* 2976* 2977* 2979 2978 2980 2981* 2981* 2982	Euphorbia ocellata, Dur. & Hilg. Salix chlorophylla, And. (?) Pinus flexilis, James. Iris Missouriensis, Nutt. Lemna Valdiviana, Philippi. Habenaria leucostachys, Watson. Allium validum, Watson. Carex vulgaris, Fries, var. alpina, Boott. luzulæfolia, Boott. Vilfa cuspidata, Torrey. Melica stricta, Bolander. Aspidium aculeatum, Swartz, var.
var.	Dunnyalvanias Muhl		scopulinum, Eaton.
29/2" Parietari	n Pennsylvanica, Muhl.		

Additions to Utah List.

1681 Myosurus aristatus, Benth.	2031 Echinospermum Redowskii, Lehm.,
2136 Ranunculus repens, L.	var. cupulatum, Gray.
1841 Thelypodium sagittatum, Endl.	2032 Eritrichium Californicum, DC.
1355 Erysimum asperum, DC.	2148 Mertensia alpina, Don.
3137* Stellaria longipes, Goldie.	(brevistyla, Watson.)
2123 Arenaria Fendleri, Gray.	2151 Pentstemon glaber, Pursh., var.
2139 Sidalcea candida, Gray.	Utahensis, Watson.
2140 Lupinus holoscriceus, Nutt.,	2149 Orthocarpus luteus, Nutt.
var. Utahensis, Watson.	2150* Cordylanthus ramosus, Nutt.
2141 aridus, Dougl., var.	2069 Shepherdia argentea, Nutt.
Utahensis, Watson.	2152* Salix alba, L., var. vitellina, Gray.
2169 leucophyllus, Lindley.	2153# Pinus flexilis, James.
2142* Astragalus glareosus, Dougl.	2156 Brodiæa Douglasii, Watson.
2143 hypoglottis, L.	2155 Camassia esculenta, Lindley.
1467 Brickellia microphylla, Gray.	2091 Zygadenus venenosus, Watson.
2144 Erigeron glabellus, Nutt., var.	2154 Carex filiformis, L., var.
1984 Balsamorhiza macrophylla, Nutt.	latifolia, Boeck.
2145 Artemisia frigida, Willd.	2157 Aira danthonioides, Trin.
1470 Rigiopappus leptocladus, Gray.	3009 Aspidium aculeatum, Swartz,
2146 Gentiana affinis, Smith.	var. scopulinum, Eaton.
3008* heterosepala, Eng.	2166 Woodsia Oregana, Eaton.
2147* Gilia Breweri, Gray. (?)	

Fig. The Funci and Alga will occupy separate lists.

Correspondents who are unknown to me should invariably send the money with order, or send satisfactory references that the plants will be paid for when received.

TERMS: Cash with the order.

CHANGES IN UTAH LIST.

Undetermined Species.—1648—Sisymbrium deflexum, Nuttall; 1623—Chothera chamæroides, Gray; 1697—Cymopterus Fendleri, Gray; 1894*—Kelloggia galioides, Torrey, the true form, Torrey did not describe it correctly. 1973—Aplopappus acaulis, Gray; 197*—Gymnoloma muttiflora; 1982*—Filago Arizonica, Gray; 1736—Senecio integerrimus, Hooker; 2013*—Sonchus arvensis; 1659—Gilla scopulorum, Jones, n. sp.; 1651—inconspicua var. sinuata, Gray; 1641—Eritrichium fulvum, A. DC.; 1888—Penstemon Kingii, Watson; 1815—Eriogonum puberulum, Watson; 2071*—Monolepis, pusilla; 2095*—Brodiza capitata, Benth.

Errors of our Authorities.—UTAH LIST.—Zygadenus Nuttallii =venenosus, Watson; Erythronium grand. =the var. minus; Veratrum album = Californicum, Esch.; Melica pozoides = bulbosa; Glyceria distans aud maritima = Atropis distans; Lemna polyrrhiza = Speirodelia = ; Scirpus microcarpus = sylvaticus, Presl., var. digynus; Poa Kingii, Watson = glumaria; Elymus triticoides = condens. var. trit.; Delphinium clatum, var. -D. occidentale, Watson, n. sp.; Silene acaulis = montana, Watson, n. sp.; Trisetum species are near to var. muticum.

Errors.—17218—Ranunculus nivalis, v. Esch scholtzii, Watson; 1821—Lepidium integrifolium. Nuttall; 1818—Arenaria congesta, v. subcongesta, Watson; 1620—Astragalus Nuttallianus, 1103 Watson, but I do not agree. 1964—Pencedanum Parryi, Watson; 22488—Nemocladus ramosissimus, Nuttall; 1725—Eriogonum microthecum, Nuttall; 1725—Eriogonum microthecum, Nuttall, typ. f.; 2272—E. subreniforme, Watson; Stipa speciosa is of Trin. & Rup., not Torrey; Ribes leptanthum, var. typ. f.